MediaMatrix®

A Division of Peavey Electronics Corporation

NWare Release Notes

Version 1.6.2a.0

May 17, 2011

The information contained in this manual is subject to change without notice. Peavey Electronics is not liable for improper installation or configuration. The information contained herein is intended only as an aid to qualified personnel in the design, installation and maintenance of engineered audio systems. The installing contractor or end user is ultimately responsible for the successful implementation of these systems.

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Prepared by Peavey Digital Research, 6 Elm Place, Eynsham, Oxford, OX29 4BD, UK.

Email:mmtechsupport@peavey.com.

Contents

Chapter 1 About this guide 1

Scope 2
Documentation conventions 2
Manual set 3
Software, firmware and manual versions 4
Sending feedback 4

Chapter 2 Latest Release 5

Release 1.6.2a (May 17, 2011) 6

Chapter 3 Previous releases 9

Release 1.6.2 (May 5, 2011) 11
Release 1.6.1f (January 21, 2011) 15
Release 1.6.1d (December 8, 2010) 16
Release 1.6.1 (October 7, 2010) 17
Release 1.6.0 (April 9, 2010) 22
Release 1.5.3.A (November 16, 2009) 28
Release 1.5.3 (September 29, 2009) 30
Release 1.5.2 (August 3rd, 2009) 34
Release 1.5.1 (July 17, 2009) 36
Release 1.5.0 (January 20, 2009) 40
Release 1.4.4 (September 11, 2008) 44
Release 1.4.3 (September 5, 2008) 45
Release 1.4.2 (May 13, 2008) 52
Release 1.4.1 (February 4, 2008) 54
Release 1.4.0 (December 19, 2007) 55
Release 1.2.6 (July 9, 2007) 57
Release 1.2.5 (September 25, 2006) 58
Release 1.2.4 (July 24, 2006) 58
Release 1.2.3 (April 18, 2006) 59
Release 1.2.2 (April 13, 2006) 59
Release 1.2.1 (April 8, 2006) 59
Release 1.2 (March 9, 2006) 60
Release 1.1.3 (October 24, 2005) 62
Release 1.1.2 (October 17, 2005) 62
Release 1.1 (September 12, 2005) 63
Release 1.0.2 66
Release 1.0.1 66
Release 1.0 Patch 1 67
Release 1.0 67

Chapter 4 Release candidates and beta releases 71

Release 1.0 Release Candidate 1 72
Release Beta 12 73
Release Beta 11 75
Release Beta 10 76
Release Beta 9 77
Release Beta 8 77
Release Beta 7 78
Release Beta 6a 79
Release Beta 6 79
Release Beta 5 79
Release Beta 4 80

Release Beta 3 81
Release Beta 2 82
Release Beta 1 82

Chapter 1

About this guide

In This Chapter

Scope....2
Documentation conventions....2
Manual set....3
Software, firmware and manual versions....4
Sending feedback....4

Scope

This guide describes the new features added to the most recent release of software, and past releases.

Documentation conventions

The following are used in the documentation to highlight particular sections of information.

Tip: Suggests alternative ways of completing a task and shortcuts that might not otherwise be obvious.

Note: Indicates important information that should not be ignored.

Caution: Indicates that unless you are careful, your actions could result in equipment damage or loss of data.

Warning: Indicates that unless you are careful, your actions could result in injuries to personnel.

Manual set

This guide is part of the MediaMatrix documentation set. The table below shows which user guides to refer to when you want to find out how to accomplish various tasks.

Note: Several associated products are required to complete a working MediaMatrix system. Both Peavey products and third party products must be installed correctly for the system to operate in accordance with published specifications.

Tasks	Relevant Guides
Building up an audio system using devices available from the NWare device tree. You may be unfamiliar with some aspects of NWare or new to NWare altogether. You want to read about the features of NWare and want step-by-step instructions, not just reference information.	NWare User Guide
Building up an audio system using devices available from the NWare device tree. You are familiar with Nware devices and when to use them. You want to look up settings to see what they are for.	NWare Device Reference
Finding out about new features added to releases of NWare and NION software.	NWare Release Notes
Using different protocols, such as PASHA and SNMP, to remotely control and monitor devices in an NWare project.	External Control User Guide
Understanding how Pandad works and managing it on your network.	Pandad Administrator Guide
Physical installation and initial configuration of a NION digital audio processor.	NION Hardware Manual
Physical installation and initial configuration of a CAB 4n.	CAB 4n Hardware Manual
Physical installation of an nControl unit and configuration of associated software.	nControl Hardware Manual
Physical installation of an nTouch 180 and configuration of associated software.	nTouch 180 Hardware Manual
Physical installation of an nTouch 60 and configuration of associated software.	nTouch 60 Hardware Manual

Tasks	Relevant Guides
Understanding how CobraNet works.	Working with CobraNet

Software, firmware and manual versions

The information in this manual is based on a specific software version (for PC software, like NWare) or firmware version (for hardware devices, like NION). The version of the manual, shown on the front page, includes the software or firmware version and the revision number of the manual itself.

Manual version 1.6.1f.0 (example)	
1.6.1f	Software or firmware version.
0	Manual revision number. Revision 0 is the first version to be published for a release. Revision 1,2 etc. indicate that the manual is a replacement for the previous version published for this release.

Note: To reduce the risk of compatibility problems, we recommend that all the hardware devices (NioNodes, nControl nodes etc.) on the network run the same firmware version, and that the version matches the version of NWare you are running.

Sending feedback

We are always looking for better ways to provide information about our products, and your input is always appreciated. If you have a comment about this manual or would like to make a suggestion, please write to:

Peavey Electronics Corp.,
MediaMatrix Division,
5022 Hartley Peavey Drive,
Meridian, MS 39305, USA.

Phone: 601.483.9548
Phone (toll free): 866.662.8750
Fax: 601.486.1678

or *email us* (*mailto:mmtechsupport@peavey.com*).

Thank you again for using MediaMatrix.

Chapter 2

Latest Release

In This Chapter

Release 1.6.2a (May 17, 2011) 6

Release 1.6.2a (May 17, 2011)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.6.2a/Release_1.6.2a.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

There are no new features in this release.

Enhancements

There are no enhancements in this release.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare or Kiosk

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

633 - Define Plugin menu option in device tree is sometimes grayed out

If a block is open on the design page, you cannot define a plugin by right-clicking in the Plugins tree - the menu item is grayed out. Right-clicking the device you want to add to the plugins menu or selecting *Define Plugin* from the *Tools* menu works fine.

662 - Exporting a page with an nTouch 60 device stops the nTouch 60 working

If you export a page, ready to make it available to Kiosk users, and that page contains an nTouch 60 node, this will prevent the pages inside the nTouch 60 block from being viewed on the nTouch 60.

724 - When CAB control interface not specified, error shown when deploying

If you deploy a project containing CAB devices to an nControl, you must also select which Ethernet port the CAB control will use. By default, no port is selected. If you attempt to deploy with no port selected, the message *role start failed: adapter not initialized* will be displayed on the *Role Deployment* dialog box.

For information on selecting a port, see *Interfacing with a CAB device* in the *nControl Hardware Manual*.

726 - It is not possible to specify which exported page to display as the default in Kiosk

When you deploy a project containing a number of pages, you cannot specify which one will be displayed when Kiosk starts. The last page that was exported is always displayed first.

A workaround for this problem is to open NWare, click the page you want to display first, remove it from the exported pages group, click OK to confirm, then add it to the group again. When you redeploy the project, the correct page will be displayed first.

727 - Third party firewalls may need configuration changes when running NWare

When NWare is installed, it adds exceptions to the Windows Firewall. If you use a 3rd party firewall, you may need to add these exceptions manually.

NION

736 - Unable to reboot or shut down NION after running Subnet Bridge role

We have seen an occasional problem with the MediaMatrix Subnet Bridge device. If you deploy a role containing this device to a NioNode, then deploy a new role to the NioNode that does not contain this device, it is no longer possible to restart the NioNode from the web UI, and it is no longer listed on the NWare Remote Log tab. You must erase the role and then power cycle the NION, then it will be available for use.

NION and nControl

723 - NION and nControl web interfaces do not operate correctly in Google Chrome

We recommend using a different browser, such as Internet Explorer or Firefox.

Bug fixes

750 - Tweaked Gain Sharing Automixer plugin - various issues

- The mean-square detectors for each input did not track correctly.
- The MSD Time Constant was an orphaned control.
- The channel in and out labels were not aligned correctly, so the *Pack Left* and *Pack Right* features left a space between the blocks.

Chapter 3
Previous releases

In This Chapter

Release 1.6.2 (May 5, 2011) 11
Release 1.6.1f (January 21, 2011) 15
Release 1.6.1d (December 8, 2010) 16
Release 1.6.1 (October 7, 2010) 17
Release 1.6.0 (April 9, 2010) 22
Release 1.5.3.A (November 16, 2009) 28
Release 1.5.3 (September 29, 2009) 30
Release 1.5.2 (August 3rd, 2009) 34
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Release 1.2.3 (April 18, 2006) 59
Release 1.2.2 (April 13, 2006) 59
Release 1.2.1 (April 8, 2006) 59
Release 1.2 (March 9, 2006) 60
Release 1.1.3 (October 24, 2005) 62
Release 1.1.2 (October 17, 2005) 62
Release 1.1 (September 12, 2005) 63
Release 1.0.2 66
Release 1.0.1 66
Release 1.0 Patch 1 67
Release 1.0 67

Release 1.6.2 (May 5, 2011)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.6.2/Release_1.6.2.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

NWare

New Tally plugin

A new *Tally* plugin has been added in this version. It is located under *Plugins / Peavey / Control / Tools* in the device tree. This device allows you to count the number of times a button is clicked. Help is available via the *Info* button on the control surface.

NION

New Python libraries now included

The Python *string.py* and *struct.so* libraries are now included with this version.

Note: The nControl and nTouch 180++ firmware include a full set of Python libraries.

Enhancements

NWare

Defaults for project properties changed to improve performance

The defaults for new projects have been changed to improve performance on NioNodes. The *control frame rate* is now 10 updates per second (changed from 30).

Updates to the NioNode AEC card tab

The AEC card tab has a number of enhancements in this version:

- New *Adaption Halt* button that disables the adaption filter for the channel.
- New *NLP Threshold* setting that specifies the threshold for an Expander device wired to the *AEC Out* signal. For more information, see *Threshold Level* (for Expander device) in the *NWare Device Reference*.

New *AEC Input Clipping* LED that indicates when the input level from the near end reaches an internally set threshold and is automatically clipped.

Note: When clipping occurs, AEC performance will be impaired.

- The *Echo Atten* meter, which shows the level of attenuation of the echo part of the signal (Echo Return Loss Enhancement - ERLE), has been updated. The range of the meter is now -6 dB to +35dB.
- The *AEC Input Routing Setup* page has been removed and the physical inputs on the AEC card (*in.Analog* flyoffs) are no longer hardwired to the *out.to AEC* flyoffs.

For more information on the AEC card control surface, see *Slot x: AEC* in the *NWare Device Reference*.

Updates to NioNode AES card tab

The *Slot x: AES* tab on the NioNode control surface now includes *Origin* and *Destination* boxes for input and output channels. These boxes display identifiers for the origin devices used with input channels and the destination devices used with output channels.

For more information, see *Slot x: AES* in the *NWare Device Reference*.

Kiosk full screen option can now be specified in personality file

When you want to start NWare Kiosk in full screen mode, you can now specify the line *<item name="full_screen_mode" value="true" />* in the NWare Kiosk personality file. This is an alternative to using the */fullscreen=1* switch on the command line.

For more information, see *Starting Kiosk in full screen mode* in the *NWare User Guide*.

New button-left style Generic Control

When you add a Generic Control to your design, you can now select *button - left* from the *Style* list to create a button with an arrow pointing to the left.

NION

Increased storage capacity for log files

The available storage for NION log files has been increased. Entries are now added to the log until 2MB of storage has been used (and approximately 22,000 lines have been stored). 1MB of the oldest log data is then deleted automatically, making room available for new entries.

You will now be able to view a much larger number of log messages in NWare and download them using Lumberjack.

NION web interface now shows network settings used when DHCP is selected

When you select DHCP on the Network page of the NION web interface, the IP address, subnet mask, gateway and DNS settings are now shown.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare or Kiosk

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

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662 - Exporting a page with an nTouch 60 device stops the nTouch 60 working

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724 - When CAB control interface not specified, error shown when deploying

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NION

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NION and nControl

723 - NION and nControl web interfaces do not operate correctly in Google Chrome

We recommend using a different browser, such as Internet Explorer or Firefox.

Bug fixes

NWare

297 - Copy settings dialog box was displayed behind NWare window during install

428 - Schedule Generator ignored changes made when gesturing controls

When the daily setting was selected on the Schedule Generator, then the Every setting was gestured up or down, the schedule string did not change.

648 - Output from Hard Limiter device was sometimes distorted

654 - Schedule Generator ignored changes to daily setting

When the daily settings on a Schedule Generator device were changed, the schedule string did not change to correspond to the new settings.

656 - Schedule Generator displayed incorrect year setting

When the once setting on a Schedule Generator device was selected, and a year greater than or equal to 2000 was specified, an incorrect year was shown in the schedule string.

667 - Comms processor device documentation corrected

Corrected comms processor device documentation to reflect that it does not operate under emulation and clarification about TCP comms.

670 - Pause button removed from nControl Media Player device

The Pause button on the nControl Media Player did not function correctly. It has been removed in this version.

677 - MediaMatrix Subnet Bridge did not function after redeploy

After a redeploy, the IP address on the MediaMatrix Subnet Bridge had to be cleared and reentered before the device would function correctly.

688 - Page groups could be created with illegal characters in their names

Page groups created when exporting pages for Kiosk could contain forward slash "/" and backward slash "\" characters in their names. Subsequently, you could not display the pages in Kiosk when the program was started. In this version, if you try to use these characters in a page group name, an error message will be displayed.

693 - NWare log included messages with unreadable characters

The NWare log included messages about the NION audio network module that contained unreadable characters. These messages are no longer generated.

700 - Peer control problem

When two controls that were peer-wired together and assigned to one NioNode were wired to a control assigned to a different NioNode, they did not function correctly.

702 - RATC protocol documentation corrected

704 - Python PySNMP was not functioning correctly

When a Python script included code for working with SNMP on the nControl or nTouch 180++, it generated an error message about a missing MIB file, even when the code was functionally correct.

714 - General UI issues in NWare

The following user interface issues have been fixed:

- 432 - The labels on the NioNode control surface GPIO tab did not line up correctly.
- 435 - Sparse Mixer device showed incorrect error message when *mix count* setting was an odd number.
- 474 - Kiosk Layout device control surface did not show image borders correctly.
- 577 - The *Multi-NION Linking* folder in the device tree has been renamed to *Project Linking*, as it is used with other node types – not just NioNodes.
- 683 - In Kiosk, when you navigated to a new page, hovered the mouse over a control and then tried to specify a value, it was ignored. You had to click the control to give it focus before specifying the value.
- 692 - Hardware Monitor tab on nControl control surface renamed to Monitor to match NioNode control surface.

716 - Loading projects from slow drive caused an error to be displayed

717 - nControl log messages could not be viewed in NWare

When certain network configurations were used, it was not possible to poll an nControl node and view the log messages.

NION

636 - Data transmitted from AES card did not include correct header information

Previously, the data stream transmitted by the NION AES card did not contain correct information about the data format in the header.

695 - AEC only cancelled the echo if the first return was within 12.5ms

If the signal received by a microphone input on the AEC card arrived more than 12.5ms after the reference signal, the card was unable to cancel the echo.

698 - AEC slow convergence and non-linear processing problems

703 - MediaMatrix Subnet Bridge device caused NION to lock up on redeploy

When a role containing a MediaMatrix Subnet Bridge device was running on a NION, and a new role was then deployed to the NION, this caused it to lock up.

734 - NION nE did not restart role after reboot

When a role was deployed to a NION nE, then the unit was restarted, the role would not start.

nControl

665 - nTouch 60 user appeared in nControl web UI

The *User Management* page in the nControl web UI showed a user called nTouch 60 user, which should not have been visible.

690 - Network data incorrectly displayed in nControl web interface

The Network page in the nControl web interface was showing incorrect information for the available network interfaces.

Release 1.6.1f (January 21, 2011)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.6.1f/Release_1.6.1f.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

nControl

New options for using the USB system recovery stick

The USB stick includes a new file in the root of the drive called *switches.xml*. This allows you to control the system recovery process.

For more information, see *Using advanced recovery options* in the *nControl Hardware Manual*.

nTouch 180++

New options for using the USB system recovery stick

The USB stick includes a new file in the root of the drive called *switches.xml*. This allows you to control the system recovery process.

For more information, see *Using advanced recovery options* in the *nTouch 180 Hardware Manual*.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare or Kiosk

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

662 - Exporting a page with an nTouch 60 device stops the nTouch 60 working

If you export a page, ready to make it available to Kiosk users, and that page contains an nTouch 60 node, this will prevent the pages inside the nTouch 60 block from being viewed on the nTouch 60.

Bug fixes

NWare

684 - CAB GPIO and RS-485 functions were not working in legacy projects

When a project created in a version of NWare prior to 1.6.1 was loaded into version 1.6.1, the GPIO and RS-485 controls on the CAB devices did not function.

CAB Dante

686 - CAB Dante units went offline and then back online continuously

When running NWare 1.6.1, CAB Dante units went offline and then back online continuously. Their changing status was indicated by the *Link* LEDs on the NWare devices.

Release 1.6.1d (December 8, 2010)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.6.1d/Release_1.6.1d.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

NWare

JL Cooper Controls device now supports RS-422 serial connections

The JL Cooper Controls device now supports RS-422 serial connections to the JL Cooper ES-8/100 or JL Cooper Eclipse MX faderbox in addition to RS-232 connections.

For more information on the pin out connections, see Interface wiring between the NION and JL Cooper devices in the NWare Device Reference.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare or Kiosk

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

662 - Exporting a page with an nTouch 60 device stops the nTouch 60 working

If you export a page, ready to make it available to Kiosk users, and that page contains an nTouch 60 node, this will prevent the pages inside the nTouch 60 block from being viewed on the nTouch 60.

Bug fixes

NWare

328 - Labeling of CAB GPIO ports incorrect

The GPIO tab on the control surface of each type of CAB showed incorrect labels for the pins.

673 - CAB serial ports not configured properly for ControlMatrix

The RS485 configuration for NWare CAB devices used a *Format* setting of *8 bit*. This prevented the CAB from working with ControlMatrix systems.

In this version, the default *Format* setting is now *9 bit*.

Release 1.6.1 (October 7, 2010)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.6.1/Release_1.6.1.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

nTouch 60

The nTouch 60 touch screen device has been released.

For information about installation and initial configuration, refer to the *nTouch 60 Hardware Manual*.

For information about using the device with NWare, see *Adding an nTouch 60 node to your design* in the *NWare User Guide*.

nTouch 180

Hosting of nTouch 60 projects

The nTouch 180 can now host NWare projects containing nTouch 60 devices.

Firmware upgrades from within NWare

You can now upgrade the firmware on the nTouch 180 from the NWare Update Firmware dialog box.

For more information, see *Updating firmware on MediaMatrix devices* in the *NWare User Guide*.

Note: You must use a USB stick to upgrade the firmware to version 1.6.1. You cannot use NWare. Once the upgrade is done, subsequent firmware versions can be installed using NWare.

Optional nControl functionality

nControl functionality is now available as an option, controlled by an activation key.

NWare

Support for nTouch 60

You can now add nTouch 60 nodes to your design. You can find these under *Hardware* in the NWare device tree.

These new nodes allow you to design individual pages for display on nTouch 60 devices on the network.

For more information, see *Adding a nTouch 60* to your design in the *NWare User Guide*.

Support for nTouch 180

You can now add nTouch 180 nodes to your design. You can find these under *Hardware* in the NWare device tree.

These new nodes allow you to manage nTouch 180 devices on the network. You can deploy projects to them, upgrade the software they run and monitor their status.

Support for NION nE

The NION nX device has been renamed to *nX/nE* and is now compatible with both the NION nX and the NION nE. You can find it under *Hardware / NION Audio Processor* in the NWare device tree.

For more information, see *Adding a NioNode to your design* in the *NWare User Guide*.

Support for CAB Dante

You can now add CAB Dante nodes to your design. You can find these under *Hardware* / *CAB Audio I/O* in the NWare device tree.

For more information, see *Adding a CAB 4n to your design* in the *NWare User Guide*.

New settings for nControl redundancy system

The nControl device now has a new tab called *Redundancy*. This allows you to manually power off the active nControl (so that the standby unit can take over) or switch over to the standby unit (without powering down the active unit). It also displays information about the standby unit.

For more information on the redundancy settings in NWare, see *nControl* in the *NWare Device Reference*.

New sample plugins

There are new plugins in the NWare device tree under *Plugins\Peavey*. These include a number of DSP devices, nTouch 60 devices, logic devices, buttons and third party devices.

Important note - obsolete device messages

Note: If you open a project created in a previous version of NWare that contains a CAB 4n device, an *Obsolete Devices* error message will be displayed. This is because CAB 4n devices have been updated in release 1.6.1 and any old CAB 4n devices in your project must be replaced. Make sure you have the previous version of NWare and the latest version installed, and then complete the steps below.

1. Make a copy of the NWare project file.
2. Open the old version of NWare and the new version of NWare. If you have space on your screen, arrange the windows side-by-side.
3. In the old version of NWare:
   a) Open the original project file.
   b) Right-click the first CAB 4n block, and then click **Device Properties**.
4. In the new version of NWare:
   a) Open the copy of the project file.
   b) Delete the first CAB 4n block.
   c) Drag a new CAB 4n device over to the page.
   d) Change the device properties of the new CAB 4n device so that they match the settings on the device open in the old version of NWare.
5. Click the **Emulate** buttons in both versions of NWare.
6. Open the CAB 4n blocks in both versions of NWare and then change the settings in the new version to match those in the old version.
7. Repeat steps 3b - 6 for the other CAB 4n blocks in the project.
8. In the new version of NWare, save and deploy the project.

NION

Synchronizing devices using an external clock source

You can now configure the NioNode AES card to receive a clock signal provided by a device connected to the card. This signal is transferred to the CobraNet network and used in place of the CM-1 clock signal from the CobraNet Conductor to synchronize devices on the network.

This feature is designed to be used in installations that require a clock source to be provided by a device that is not a NioNode.

For more information, see *Using an external clock source to synchronize devices on a CobraNet network* in the *NWare User Guide*.

nControl

Redundancy system

The nControl now supports a redundancy system that allows a standby unit to take over should the active unit fail.

For more information, see *Setting up redundancy* in the *nControl Hardware Manual*.

Python PySNMP support added

nControl now provides native SNMP support in the Python programming environment. This technology is referred to as PySNMP.

For more information on PySNMP, see *http://pysnmp.sourceforge.net/* (*http://pysnmp.sourceforge.net/*).

For information on using Python with nControl, see Adding flexibility to your design using Python scripting in the NWare User Guide.

Note: You must use a USB stick to upgrade the firmware to version 1.6.1. You cannot use NWare. Once the upgrade is done, subsequent firmware versions can be installed using NWare.

Enhancements

nControl

Activation key changes

If you create a project containing devices from the *nControl Devices* section of the NWare devices tree, and deploy it to the nControl, it will only function if an activation key has been specified.

If your project does not contain devices from the *nControl Devices* section of the devices tree, an activation key is not required. The nControl can host nTouch 60 projects without a key being specified.

Bug fixes

NWare

345 - When you uninstall NWare, not all items associated with the installation are removed

379 - Could not uninstall via Control Panel under Windows Vista or Windows 7

Previously, under Windows Vista or Windows 7, it was not possible to uninstall NWare from Windows Control Panel.

551 - Network interface selection dialog box sometimes appeared behind NWare window

Each time you emulate or deploy a project, NWare checks to see if the list of available network interfaces has changed. If it has, a dialog box is displayed that allows the user to select the network interface to use. This dialog box was sometimes displayed behind the NWare application and was not visible to the user. In this version, it is always displayed in front.

554 - Opening a new page when emulating caused NWare to crash

When emulating a project and clicking different page tabs in NWare, the application sometimes crashed. This problem has now been fixed.

564 - The severity for time change log messages is now verbiage

Previously, when the time was changed on a node, a log message with the severity *note* was generated. As NWare is configured to add messages of this severity to the log, it meant that a large number of log messages were generated. In this version, when the time is changed, a log message with the severity *verbiage* is generated; by default, messages of this type are filtered out and not displayed on the Remote Log tab.

623 - Problem opening and closing blocks when project contained a large number of meters

Previously, if a large number of meters were active on screen, it was not possible to open or close a block.

625 - Publisher cannot be verified warning was displayed

When the NWare installer was run, a warning stating that the publisher could not be verified was displayed. NWare source code is now signed and this warning is no longer displayed.

626 - Windows Firewall warnings were displayed

The first time NWare was started on a PC, Windows Firewall warnings were displayed.

657 - Unit and System mute buttons did not mute outputs on NIO-4x4 card

Previously, when a NioNode was fitted with a NIO-4x4 card and the Unit mute or System mute buttons on the Mute tab were clicked, the outputs from the NIO-4x4 card were not muted.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare or Kiosk

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

662 - Exporting a page with an nTouch 60 device stops the nTouch 60 working

If you export a page, ready to make it available to Kiosk users, and that page contains an nTouch 60 node, this will prevent the pages inside the nTouch 60 block from being viewed on the nTouch 60.

Release 1.6.0 (April 9, 2010)

Live Update

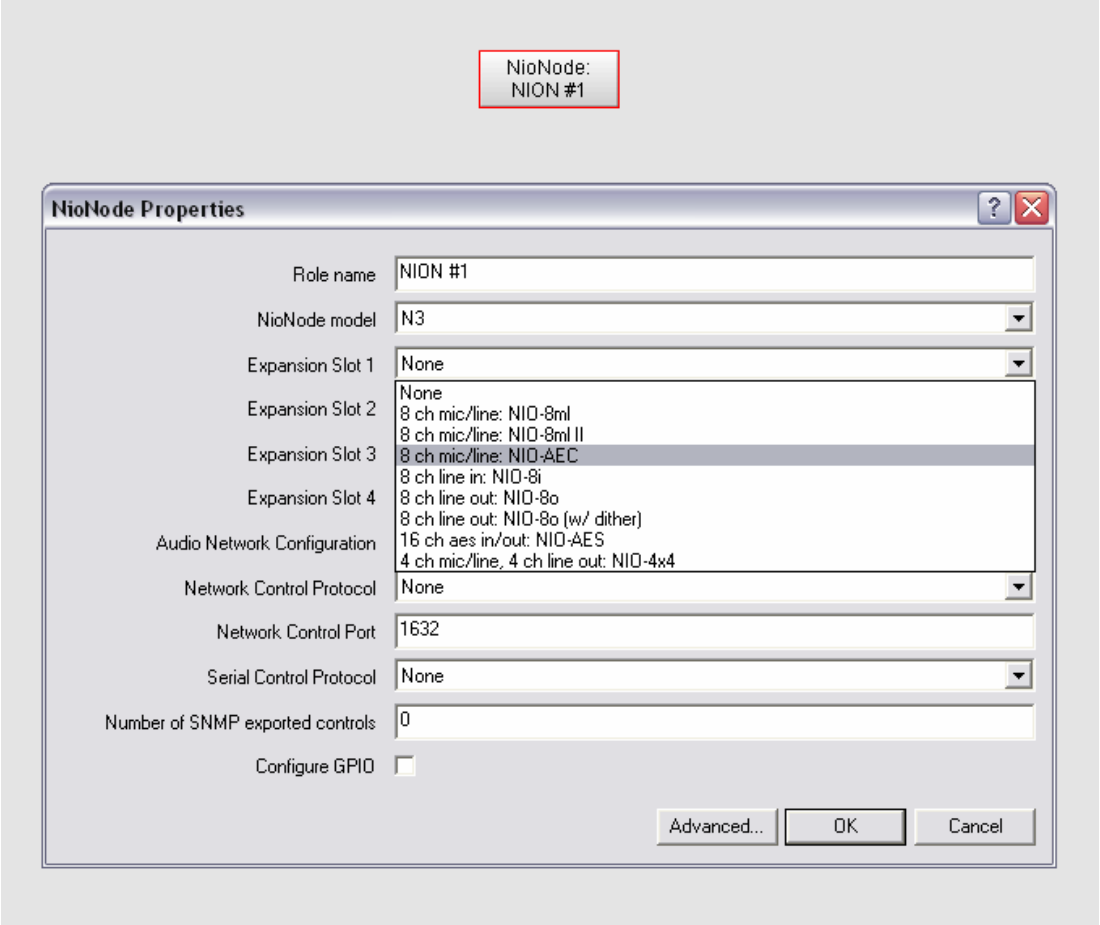
Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.6.0/Release_1.6.0.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

NWare

Support for new NioNode AEC card

The **NioNode Properties** dialog box in NWare shows a new option for specifying a NIO-AEC card in each of the expansion slots.



For more information, see *Using echo cancellation in your design* in the *NWare User Guide*.

Plugins and example plugin library

NWare user devices have been replaced with a much more powerful feature called *plugins*. Plugins store collections of devices from your designs. By creating a series of plugins you can reuse and share custom functionality with other users.

Here are some things you can do with plugins:

- Customize devices to always appear the way you want, with the default values you want.

- Build, reuse, and distribute your own custom design elements and title blocks.
- Create devices to control other products.
- Distribute, either freely or for money, the devices you create.

For more information, see Storing and reusing devices using plugins in the NWare User Guide.

Live Python device

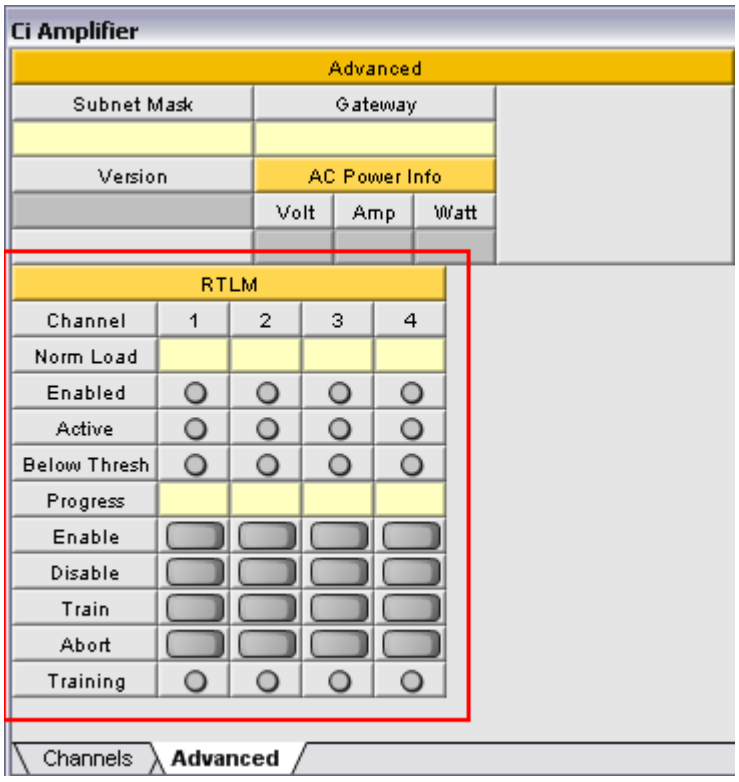
There is a new device called **Live Python** available under **Control** in the NWare device tree. This allows you to add Python scripts to your project as string control values, rather than creating individual functions on the Script tab. The main benefits are:

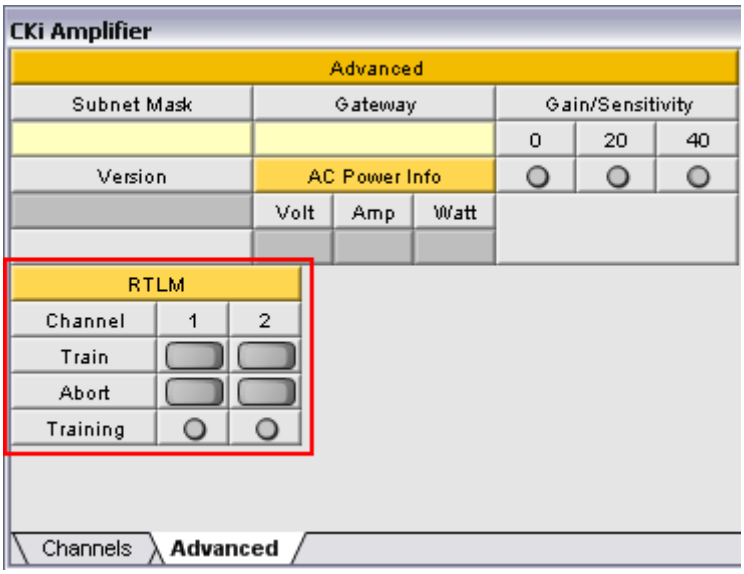
- Live editing of scripts at run-time without redeploying the project.
- Copying and pasting of scripts between projects instead of having to export and then import scripts.

For more information, see *Live Python* in the *NWare Device Reference*.

Improved Crest Ci and CKi amplifier devices including support for individual channel RTLM training

The *Advanced* tabs on both the Crest Ci and CKi amplifier devices now include new sections, which allow RTLM training for individual channels.





Support for the JL Cooper Eclipse MX faderbox

You can now add a JL Cooper Eclipse MX faderbox to your design, as well as a JL Cooper ES-8 100.

The device previously called *JL Cooper ES-8 100* has been renamed to *JL Cooper Controls*. This is located in the NWare device tree under *Hardware* in the *Third Party* folder. The new device allows you to create a JL Cooper ES-8 100 device or a JL Cooper Eclipse MX faderbox device.

For more information on the JL Cooper Eclipse MX faderbox, refer to the *JL Cooper website* (*http://www.jlcooper.com/pages/eclipsemx.html*).

New device for controlling the Furman F1500 UPS.

The NWare device tree now includes a device for the Furman F1500 UPS. It is located in the *Third Party* folder under *Hardware*.

For more information, refer to the *Furman website* (*http://www.furmansound.com/product.php?div=01&id=F1500-UPS_PRO*).

NION

New Acoustic Echo Cancellation (AEC) card

NIONs now support the new NIO-AEC card, which is a wideband echo canceling device. Depending on the NION model, up to 4 NIO-AEC cards may be loaded.

Selected features of the card:

- Eight analog mic or line-level audio input channels with 24 bit A/D
- Eight channels of wideband acoustic echo cancellation
- Acoustic echo cancellation can be applied to mic input or internal audio input channels (from NION)
- Full 20 to 20kHz bandwidth support.

For information on using echo cancellation in your NWare designs, see *Using echo cancellation in your design* in the *NWare User Guide*.

Enhancements

NWare

NioNode firmware versions are now checked at deploy time for consistency

When you deploy a project, if the version of NWare you are running is different to the version of firmware running on the target NioNode, a warning is now displayed.

Firmware update recommended
The target is running firmware version 'release_1.5.4_nightly_17-feb-10'
You should consider upgrading to 'release_1.5.4_beta_3'
Do you still wish to deploy ?
Yes
No

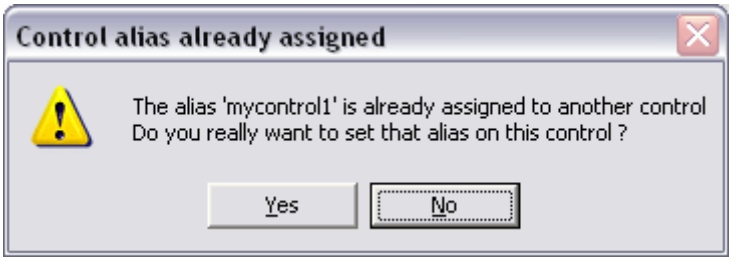
Note: To reduce the risk of compatibility problems, we recommend that all the hardware devices (NioNodes, nControl nodes etc.) on the network run the same firmware version, and that the version matches the version of NWare you are running.

Each version of NWare includes firmware for all the MediaMatrix hardware devices it supports.

You can download the latest software and earlier versions of software from *http://mm.peavey.com/downloads/index.cfm* (*http://mm.peavey.com/downloads/index.cfm*).

When a duplicate control alias is created, a warning is now displayed

When you are editing the properties of a generic control, and you specify a control alias on the Wiring tab, NWare will now check to see if that alias is already in use by another control. If it is, a warning will be displayed.


Control alias already assigned
The alias 'mycontrol1' is already assigned to another control
Do you really want to set that alias on this control ?
Yes
No

If you click **Yes**, the control alias will be moved over from the old control to the new control. If you click **No**, the alias will not be moved.

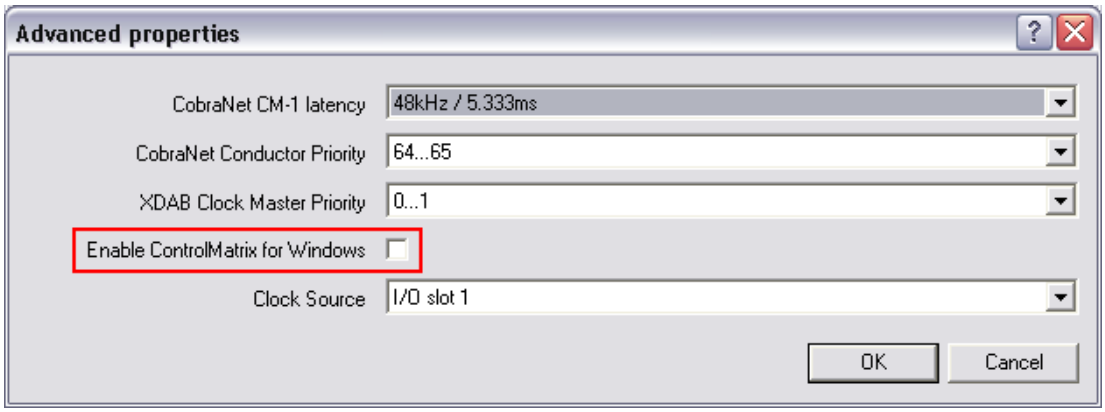
Aliases are used to refer to controls using external protocols, like RATC. Each alias you specify must be unique.

For more information on using external protocols with NWare controls, see *Controlling NWare controls* in the *External Control User Guide*.

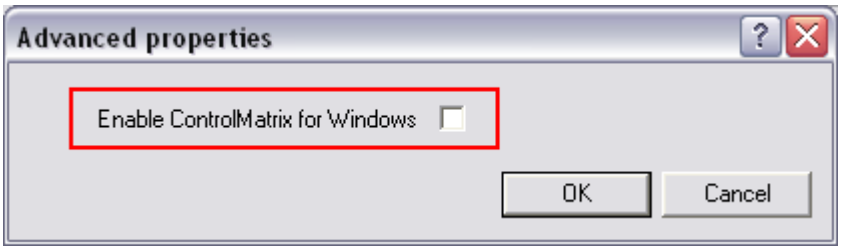
Independent selection of options for using RATC and ControlMatrix for Windows

There are new options on the NioNode properties and nControl node properties for enabling communications with ControlMatrix for Windows using RATC. Previously, in order to use ControlMatrix you had to specify RATC as the network control protocol for the node, which allowed users to control it remotely. Now, you can select the RATC and ControlMatrix options independently.

On the NioNode, the *Advanced properties* dialog box has a new option.

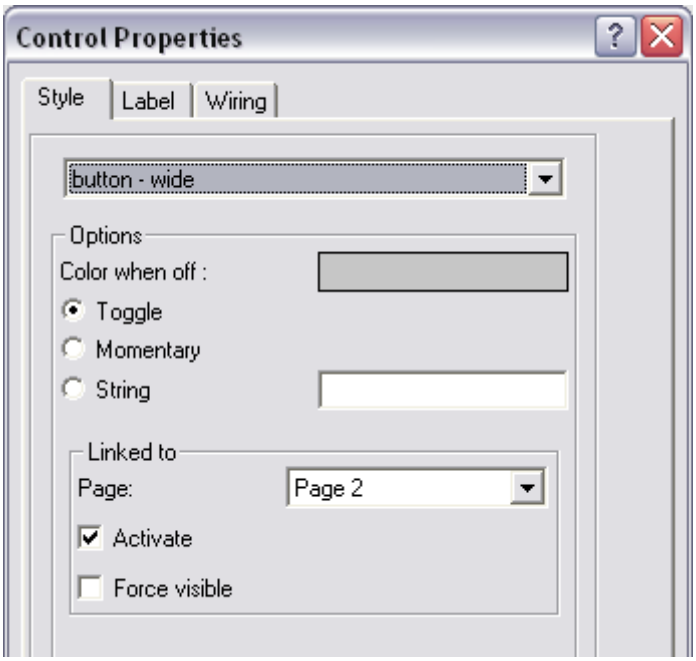


And on the nControl node, there is a new *Advanced* button that displays a new option.

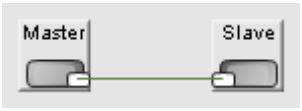


- ***A button configured to display a new page can now be control wired to a master button and controlled remotely***

  A generic control button set up to display a new page can now be activated remotely when a second, master button is clicked. In the example below, the control button is set up to link to page 2 in the design.



When this button is wired to a master button and the project is emulated or deployed, clicking either button will switch to page 2.



Tip: If page 2 is inside a different block to the master button, select the **Force visible** check box and the page will be displayed when the button is clicked. This is a useful feature that always ensures a hidden page is displayed. You can use this feature to set up an index page in your project that will jump directly to any page in any block as soon as the button is clicked.

- ***Windows 7 is now officially supported***
- ***Minor improvements to the organization and colors in the device tree.***

Bug fixes

NWare

- ***315 - You can now wire to controls and devices that are grouped with other objects***
- ***408 - Playback of some audio files via CHIMP was not possible under Windows Vista***

  If you attempted to play audio files using the CHIMP option on the Wav File Recorder, no audio could be heard from the PC headphones. This problem did not occur under Windows XP – it was a Vista-only issue.
- ***466 - Text boxes with scroll bars displayed on the control surfaces of some devices are now working correctly.***

NION

- ***433 - FTP file listings did not work with some FTP client applications.***
- ***505 - Pop on analog outputs of a NION during shutdown***

Known issues

NWare

- ***57 - Additional steps needed for non-admin users running NWare under Windows XP***

  Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

  The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

  For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

- ***345 - When you uninstall NWare, not all items associated with the installation are removed***
- ***379 - Cannot uninstall via Control Panel under Windows Vista or Windows 7***
  - To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

    Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.
- ***404 - Page locking feature prevents a project from being edited.***

  If you use the page locking feature, it is possible that NWare will not allow you to view the different pages in your project or add devices to the project. We have seen this problem occur in the following scenario:

  1. A new NWare project is created.
  2. A new page is added next to the default page and then it is locked (and automatically hidden).
  3. The new page is shown again.
  4. The first page is deleted.
  5. The project is saved and then reloaded.

  No page tabs are available, so different pages cannot be viewed or edited.

Release 1.5.3.A (November 16, 2009)

Features

There are no new features in this release.

Bug fixes

NWare

- ***506 - Editing multiple control properties caused NWare to close unexpectedly***

  In NWare 1.5.3, if you selected several controls in your design that were of different types - a fader and a knob, for example, and then made a change to the properties, when you clicked OK, NWare closed unexpectedly.

  Notes:

  - This problem did not occur when changing the properties of controls of the same type.
  - This problem did not occur in versions prior to 1.5.3.

NION

- ***505 - Audible pop can be heard on outputs when powering down the NION***

  Previously, when you shut down the NION from the front panel, an audible pop could be heard from speakers connected to NIO-8o and NIO-4x4 analog output cards installed in the unit.

  Note: If the NION loses power unexpectedly, because a power cable has been suddenly removed, for example, a pop may still be heard.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare under Windows XP

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

379 - Cannot uninstall via Control Panel under Windows Vista

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

385 - Selecting undo after adding certain devices causes NWare to close unexpectedly

If you drag a device from the device tree over to the page, open the device block, and then press CTRL+Z to undo the operation, in the case of certain devices, NWare will close unexpectedly.

Note: This does not occur when adding all types of devices, but we recommend avoiding this exact sequence of steps as a precaution.

404 - Page locking feature prevents a project from being edited

If you use the page locking feature, it is possible that NWare will not allow you to view the different pages in your project or add devices to the project. We have seen this problem occur in the following scenario:

1. A new NWare project is created.
2. A new page is added next to the default page and then it is locked (and automatically hidden).
3. The new page is shown again.
4. The first page is deleted.
5. The project is saved and then reloaded.

No page tabs are available, so different pages cannot be viewed or edited.

408 - Playback of some audio files via CHIMP not possible under Windows Vista

If you attempt to play audio files using the CHIMP option on the Wav File Recorder, no audio can be heard from the PC headphones. This problem does not occur under Windows XP – it is a Vista-only issue.

420 - Command Prompt window displayed when loading project under Windows 7 Beta

If you double-click an npa file to open it, the file is opened in NWare as expected, but a Command Prompt window is also displayed.

Release 1.5.3 (September 29, 2009)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.5.3/Release_1.5.3.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

NWare

ControlMatrix for Windows support

NWare now supports ControlMatrix for Windows. On the NioNode device properties, when you click the **Advanced** button, you will see a new option called **Enable ControlMatrix for Windows**. Select this check box to start using the NioNode with ControlMatrix. A new tab called **Net Ctl CMW** will be added to the NioNode block.

In the NWare device tree, under **Control**, there is a folder called **ControlMatrix for Windows**; inside this folder is a new device called **Zone Paging Block**. This device allows you to specify settings for an individual paging zone. The device is designed to be deployed to a NioNode.

For more information on ControlMatrix for Windows, see the products page on the *MediaMatrix website* (*http://mm.peavey.com/products/index.cfm*).

Kiosk layout devices

In the NWare device tree, under **Graphic Elements & Blocks**, there is a new folder called **Kiosk Layouts**. This contains devices that are designed to speed up the process of sizing pages for display in Kiosk on a PC or on the nTouch 180. Each device creates a block containing a **Home** page with links to individual pages. The pages are automatically exported to a page group, ready to be used in Kiosk. The default page sizes of the devices are 1024x768, 1280x768, 640x480 (**Generic** device) and 800x480 (**nTouch 180** device).

Email Sender device

In the NWare device tree, under **Control** / **Tools**, there is a new device called **Email Sender**. This device allows you to send emails from a NioNode or nControl node using the standard SMTP protocol.

The **Server** field is required and must be a valid IP address for an SMTP server.

Note: Domain names cannot be used.

The **From** field is required and must be a valid email address. The **To** field is required and must be one or more valid email addresses, separated by commas. This is limited (by the SMTP protocol) to 100 recipients.

The **Progress** field shows the progress of the mail sending process, which is useful for debugging.

The **Status** field shows a result message with a date/time stamp when the process completes successfully. In the event one or more of the recipients is rejected by the server, the addresses of those recipients will be displayed in the **Status** field.

Note: If you intend to automate the process of sending emails, it is very important to check that the logic in your design is working correctly. If there is an error in the design, a large number of emails may be sent with incorrect content or to the wrong destinations, for example.

Third party devices

There are new devices located under **Hardware** / **Third Party** in the NWare device tree for interfacing with a Middle Atlantic 2200 UPS and a SeaLevel SeaI/O-470. For more information on these devices, refer to the *MiddleAtlantic website* (*http://www.middleatlantic.com/power/UPS.htm*) and the *SeaLevel website* (*http://www.sealevel.com/categories.asp?category_id=21&Sealevel_SeaI/O_Digital_Analog_I/O_Data_Acquisition_Solutions_+*).

JL Cooper device now supported by NioNodes

The *JL Cooper ES-8 100* device is now supported by both NioNodes and nControl nodes. It is located under **Hardware** / **Third Party** in the NWare device tree.

For more information, see *JL Cooper ES-8 100* in the *NWare Device Reference*.

Generic control now has page link feature

The Generic Control device, available under **Control** / **Knobs, Faders, Etc.** in the device tree, now has new options on the control properties. These allow you to create a button that will open a page within the same block when clicked. This feature makes it easier to create buttons for jumping between pages when running Kiosk on the nTouch 180.

When you select one of the **button** styles, a new section called **Linked to** is made available. When you select the Activate check box, you can choose the name of a page in the **Page** list. This will be opened when the button is clicked.

XDAB device now replaced with two separate devices

There are now two XDAB devices in the NWare device tree, located under **Hardware** / **NION Audio Processor**. One is limited to a maximum of 448 channels and is called **XDAB**. The other device is limited to a maximum of 512 channels and is called **XDAB Advanced**.

Note: It is possible that using more than 448 channels on an XDAB device may produce unexpected results. We recommend that you use the version of the device limited to 448 channels.

Two separate Gain Sharing Automatic Mixer devices replaced with a single device

The two **Gain Sharing Automatic Mixer** devices have been replaced with a single device. This is available under **DSP** / **Mixers** / **Automatic** in the device tree. The **Include Link** property on the device is selected by default.

Kiosk display settings for use with nTouch 180

You can now control a number of display features in NWare Kiosk by adding entries to the *nware_kiosk.xml* file, located in *\program files\MediaMatrix\NWare <version>\personality*:

- The display of scroll bars. The entry `<item name="provide_scroll_bars_where_necessary" value="false"/>` switches off the display of scroll bars when the Kiosk screen is larger than the display size.

- The appearance of the window that appears when Kiosk can no longer connect to the project. The entry `<item name="connection_window_subtle" value="true"/>` reduces the size of the window and changes the text to **Connection lost**.
- The coloring of controls when Kiosk can no longer connect to the project. The entry `<item name="indicate_failed_connection_visually" value="false"/>` stops the controls from being colored yellow.

NION

CPU monitor added to the NION web interface

The **Hardware** page in the NION web interface now includes a CPU monitor, which displays similar information to the **SYSTEM STATUS** page in the NION front panel interface.

The first time the page is displayed, a tilde (~) symbol is shown instead of the *CPU Load* figure. You must refresh the page in order to see the calculated figure. Each time you refresh the page, the *CPU Load* figure is recalculated, based on the time since the page was last refreshed. The maximum time interval used for the calculation is 30 seconds.

nControl

CPU monitor added to the nControl web interface

The **Hardware** page in the nControl web interface now includes a CPU monitor, showing information about the utilization of the internal CPU.

The first time the page is displayed, a tilde (~) symbol is shown instead of the *CPU Load* figure. You must refresh the page in order to see the calculated figure. Each time you refresh the page, the *CPU Load* figure is recalculated, based on the time since the page was last refreshed. The maximum time interval used for the calculation is 30 seconds.

Bug fixes

NWare

416 - XDAB channel limit was not working correctly

Previously, if you dragged an XDAB device over to the page, the Virtual XDAB Properties dialog box was displayed. If you specified a channel count value greater than 448, then displayed the advanced settings, overrode the normal channel limit and specified a new limit, when you closed the Advanced properties dialog box and then the Virtual XDAB Properties dialog box, a warning message was displayed and the device could not be created.

This issue has been fixed with the introduction of two new XDAB devices: one has a channel limit of 448 and the other has a channel limit of 512.

421 - NWare Kiosk display flickered when switching between tabs

Previously, the procedure for hiding page tabs in NWare Kiosk involved specifying `<hide_root_tab value = "true"/>` in the Kiosk personality file. This caused a problem when the project contained a button that switched to a new page. When the button was clicked, the display flickered.

In this version, the procedure now involves specifying `<item name="skip_drawing_page_tabs" value="true" />` in the *nware_kiosk.xml* file. When this is done, the page tabs are hidden and the display does not flicker when switching to a new page. For more information, see *Hiding page tabs* in the *NWare User Guide*.

462 - Command Prompt window displayed when network connection to Kiosk fails

When Kiosk was configured so that the status window was hidden (the default configuration for an nTouch 180) and the network connection failed, a Command Prompt window was displayed. This window showed a Corba error message.

In this version, you can suppress the display of the Command Prompt window by specifying `<item name="write_console_message_on_comms_exception" value="false"/>` in the *nware_kiosk.xml* file. For more information, see *Hiding the Command Prompt window* in the *NWare User Guide*.

NION

454 - Global preset did not enforce system mute on restart of NioNode

In NWare, if you performed a system mute operation on a NioNode and then saved the status of the NioNode System Mute button in a Global Preset, when the NioNode was restarted, the system mute was cleared. The system mute should still have been in effect.

nControl

414 - nControl time setting advanced one hour of what was specified

When all the NION and nControl units on the network were set to use *normal* mode for time synchronization, if you changed the time on the nControl unit via the web interface, the time was advanced by one hour from what was specified.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare under Windows XP

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

379 - Cannot uninstall via Control Panel under Windows Vista

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

385 - Selecting undo after adding certain devices causes NWare to close unexpectedly

If you drag a device from the device tree over to the page, open the device block, and then press CTRL+Z to undo the operation, in the case of certain devices, NWare will close unexpectedly.

Note: This does not occur when adding all types of devices, but we recommend avoiding this exact sequence of steps as a precaution.

404 - Page locking feature prevents a project from being edited

If you use the page locking feature, it is possible that NWare will not allow you to view the different pages in your project or add devices to the project. We have seen this problem occur in the following scenario:

1. A new NWare project is created.
2. A new page is added next to the default page and then it is locked (and automatically hidden).
3. The new page is shown again.
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No page tabs are available, so different pages cannot be viewed or edited.

408 - Playback of some audio files via CHIMP not possible under Windows Vista

If you attempt to play audio files using the CHIMP option on the Wav File Recorder, no audio can be heard from the PC headphones. This problem does not occur under Windows XP – it is a Vista-only issue.

420 - Command Prompt window displayed when loading project under Windows 7 Beta

If you double-click an npa file to open it, the file is opened in NWare as expected, but a Command Prompt window is also displayed.

Release 1.5.2 (August 3rd, 2009)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.5.2/Release_1.5.2.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

There are no new features in this release.

Bug fixes

nControl

427 - System disk partition could be filled to capacity preventing the nControl unit from working

Previously, you could copy files to an nControl unit using FTP until the entire capacity of the system disk was used. This in turn prevented the unit from working.

In this version, a separate disk partition has been created specifically for storing media files. The media files partition is used automatically when you copy files to the nControl unit, ensuring that the main system partition is left with the required amount of free space.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare under Windows XP

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

379 - Cannot uninstall via Control Panel under Windows Vista

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

385 - Selecting undo after adding certain devices causes NWare to close unexpectedly

If you drag a device from the device tree over to the page, open the device block, and then press CTRL+Z to undo the operation, in the case of certain devices, NWare will close unexpectedly.

Note: This does not occur when adding all types of devices, but we recommend avoiding this exact sequence of steps as a precaution.

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416 - XDAB channel limit not working correctly

If you drag an XDAB device over to the page, the Virtual XDAB Properties dialog box is displayed. If specify a channel count value greater than 448, then display the advanced settings, override the normal channel limit and specify a new limit, when you close the Advanced properties dialog box and then the Virtual XDAB Properties dialog box, a warning message is displayed and the device cannot be created.

420 - Command Prompt window displayed when loading project under Windows 7 Beta

If you double-click an npa file to open it, the file is opened in NWare as expected, but a Command Prompt window is also displayed.

421 - NWare Kiosk display flickers when switching between tabs

If you add the setting `<hide_root_tab value = "true"/>` to the Kiosk personality file to hide the page tabs in your design, and your project contains a button that switches to a new page, the display will flicker when the button is clicked.

nControl

414 - nControl time setting advances one hour of what is specified

When all the NION and nControl units on the network are set to use *normal* mode for time synchronization, if you change the time on the nControl unit via the web interface, the time is advanced by one hour from what is specified.

Release 1.5.1 (July 17, 2009)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.5.1/Release_1.5.1.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

NWare

Support for nControl units

You can now add nControl nodes to your design. For more information, see *Adding an nControl node to your design* in the *NWare User Guide.*

The device tree includes a new section called **nControl Devices**, which contains a number of new devices specifically for use with nControl nodes. For more information, see *nControl Devices* in the *NWare Device Reference*.

Note: These devices cannot be used with NioNodes.

You can upgrade the firmware on nControl nodes by following the same procedure used for NioNodes. For more information, see *Updating firmware on NioNodes and nControl nodes* in the *NWare User Guide*.

Support for ControlMatrix TPU devices

You can now add ControlMatrix TPU 2 and TPU 4 devices to your design. These allow you to work with ControlMatrix telephone paging units. The new devices are located under **Hardware** in the NWare device tree.

For information on the TPU 2 and TPU 4, refer to the *Products page* (*http://mm.peavey.com/products/index.cfm*) on the MediaMatrix website.

New Comms Processor device

The device tree includes a new Comms Processor device under **Control** / **Tools**. This allows you send and receive textual data over a serial or TCP connection. In TCP mode, the device operates as a Telnet TCP client, initiating connections using a specified IP address and port. While the device can initiate outgoing connections, it is not capable of accepting incoming connections and cannot operate as a TCP server.

Notes:

- This device is not supported in Emulation mode.
- If you use the NioNode RS-232 port, it must be configured so that *console mode* is disabled. For more information on console mode, see *Specifying the function of the RS-232 serial port* in the *NION Hardware Manual*.

When you use TCP mode, the role containing the Comms Processor can be deployed to any NioNode in your project. This is because a TCP connection can be made from any NioNode on the network to the receiving device. When you use a serial connection, however, the receiving device must be physically connected to a particular NioNode. You must therefore deploy the role to this NioNode and not any other in the project.

For more information, see *Comms Processor* in the *NWare Device Reference*.

NION

FTP server for copying media files

You can now copy audio files to NioNodes on the network and from NioNodes to other locations using FTP.

You can quickly change the available media in your project by copying new files to the NioNode. You can also minimize the size of the NWare project file by storing your media on the NioNode and not in the project file itself.

For more information, see *Copying media files to and from a NION* in the *NION Hardware Manual*.

Regular updating of time zone definition files

This release includes updated time zone definition files to ensure that the time zone settings are correct for each locality where NIONs are used.

All subsequent releases of NION and nControl firmware will include the most up-to-date time zone definition files.

nControl

The new nControl unit has been released. For more information, refer to the *nControl Hardware Manual*.

nTouch 180

The new nTouch 180 has been released. For more information, refer to the *nTouch 180 Hardware Manual*.

Bug fixes

NION

- ***390 - Tonal noise was produced when AES Input connectors were removed***

  Previously, when you removed an input connector from an AES card, a significant level of tonal noise was produced. This problem has now been fixed.

- ***392 - NION stopped functioning when role containing three or more AES cards was stopped***

  Previously, if you created an NWare project containing three or more AES cards and then deployed the role to a NION, it ran successfully. However, if you then attempted to redeploy it, the NION stopped functioning.

- ***393 - Daylight saving time was displayed instead of standard time***

  The time displayed in the NION web interface was always daylight saving time, even when the current date did not fall within the period when daylight saving time is used. This has now been fixed so that the correct time is always shown for the current time zone.

- ***400 - Null characters stopped data being read from serial port via Python***

  In previous versions, if you used a Python script to read data from the NION serial port and a null character was encountered, the data stream was terminated. This limitation has now been removed, and null characters, which are valid, can be read from the serial port.

  Tip: You can also use Python script to read null characters from the serial port on an nControl unit.

Known issues

NWare

- ***57 - Additional steps needed for non-admin users running NWare under Windows XP***

  Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

  The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

  For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

- ***379 - Cannot uninstall via Control Panel under Windows Vista***

  - To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

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nControl

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When all the NION and nControl units on the network are set to use *normal* mode for time synchronization, if you change the time on the nControl unit via the web interface, the time is advanced by one hour from what is specified.

Release 1.5.0 (January 20, 2009)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.5.0/Release_1.5.0.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

NWare

- ***Support for Dante networking technology***

This release adds support for NIONs with a Dante network interface installed.

This is a preliminary release, and as such, configuration of the Dante audio network connections is only supported through 3rd party applications, such as Audinate's Dante Controller software. This software supports 32 channels of 48k audio in and out.

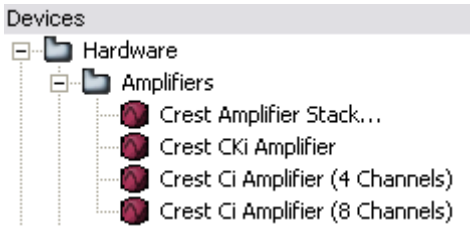
For more information, see Using a NioNode on a Dante network.

- ***Control of Crest CKi and Ci amplifiers***

NWare now allows you to control and monitor Crest CKi and Ci series amplifiers. For detailed information on these amplifiers, refer to the *Crest website* (*http://www.crestaudio.com/products/browse.cfm/action/drill/cat/329/begin/0/CKi+Series.cfm*).

Note: Before you use an amplifier with NWare, it is important to check that it is installed correctly and is running the latest firmware. If you need to upgrade the firmware, use the Crest NexSys software to do this.

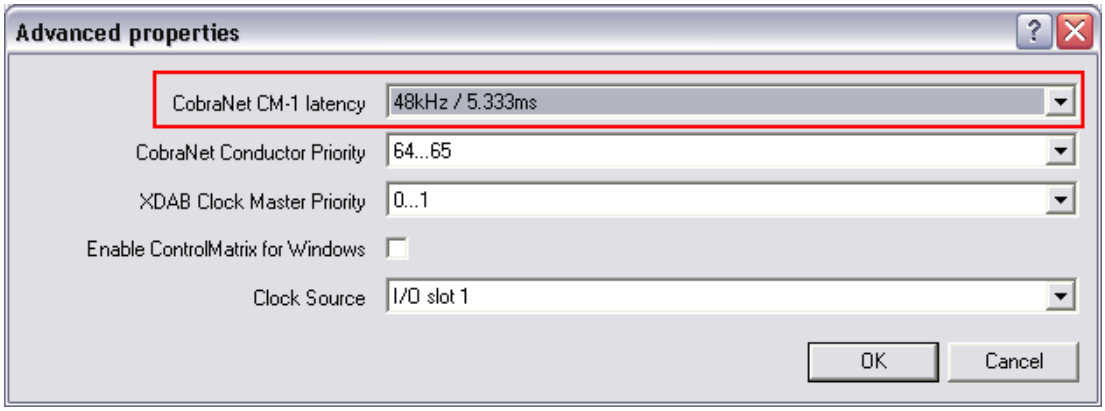
Under **Hardware** in the NWare device tree, there is a new folder called **Amplifiers**. This contains new options for creating a Crest CKi amplifier block (**Crest CKi Amplifier**), a four channel or eight channel Crest Ci amplifier block (**Crest Ci Amplifier (4 Channels)**, **Crest Ci Amplifier (8 Channels)**) and a stack of amplifiers of either type (**Crest Amplifier Stack**).



For information on using these devices, see *Using Crest amplifiers in your design* in the *NWare User Guide*.

CobraNet CM-1 latency setting moved

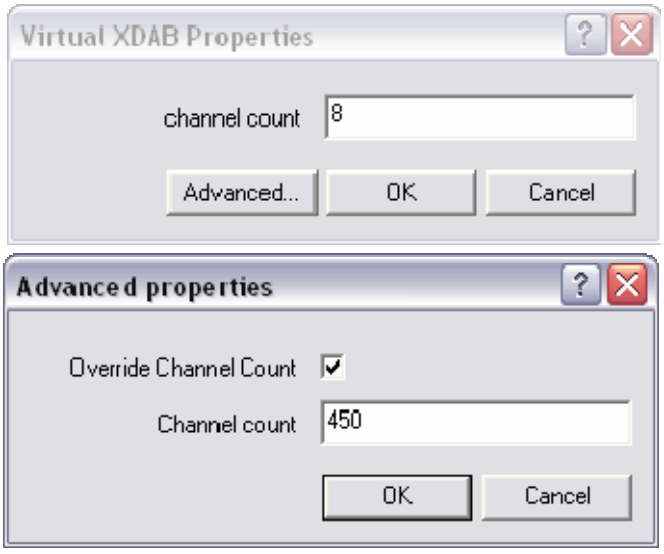
The **CobraNet CM-1 latency** list has been moved from the **NioNode Properties** dialog box to the **Advanced properties** dialog box (opened by clicking the **Advanced** button).



Maximum channels for XDAB device now 448 with limit override option

When you add an XDAB device to your design, the maximum number of channels you can specify by default is now 448. If you try to exceed this maximum, a warning is displayed.

If you want to override the limit, you can click the **Advanced** button on the **Virtual XDAB Properties** dialog box, which is displayed when you drag the device over to the page, then select the **Override Channel Count** check box and type a new limit in the **Channel count** box.



Note: It is possible to exceed the 448 channel limit, but it is not recommended. Testing has shown that using a greater number of channels can produce unexpected results.

NION

Support for Dante networking technology

The NION N3, N6 and nX units now support Dante networking technology from *Audinate* (*http://www.audinate.com*).

Tip: There are no user-configurable options for Dante on the NION units. All the settings are specified using the NWare and Dante Controller PC software.

Firmware information now included in log file

When the NION boots up, information on the CobraNet firmware version and NION firmware version is written to the log file. For example:

```
12/8/2008 10:31:33   5513   note   piond/version   Audio network
module Peavey NION CobraNet version 2.9.12 CM-1(a) rev 1

12/8/2008 10:31:33   5512   note   piond/version   Firmware version
release_1.5.0_dev_1
```

Bug fixes

NWare

133 - Single tap delay line contained superfluous controls

In previous versions, the single tap delay line included some controls that were not needed. In this version, the device now only features controls that are relevant to its function.

144 - Bundle number controls could be gestured

In gesture mode, when you moved the mouse pointer over bundle number boxes, then dragged the pointer, the settings changed. In this version, the settings remain unchanged.

284 - Deleting media files did not reduce project file size

In previous versions, when you deleted media files listed on the **Media** tab, they were no longer shown on the tab, but may still have been stored in the NWare project file. The delete operation did not reduce the size of the file. This issue has now been resolved and the files are deleted as expected.

313 - Tools menu did not show Device Properties option correctly

When no devices were selected on the page, NWare showed a blank space on the **Tools** menu. There should have been a dimmed command called **Properties**.

314 - Right-clicking on the Deploy dialog box caused NWare to close unexpectedly

Right-clicking on a blank area of the **Deploy** dialog box caused NWare to close unexpectedly.

359 - Renaming a page caused NWare to close unexpectedly

Previously, renaming a page in NWare and then clicking next to the new page tab and attempting to create another new page caused NWare to close unexpectedly.

373 - Spelling mistake on installation dialog box

If NWare was already installed on your PC, then you installed a more recent version, the installer prompted you to copy the settings from the current installation to the new one. The title of the **Initializing NWare version x.x.x** dialog box was misspelled.

NION

121 - CobraNet status screen was skipped when navigating on front panel

When you navigated through the status screens on the NION front panel, the CobraNet status screen was skipped when you moved backwards using the **PREV** button.

278 - Data on RS-232 serial port halted boot process

Some control systems send characters periodically through the RS-232 serial port. When the NION was booting up, if a character was received on the RS-232 port at the right time, the boot process was halted and console communications were started. This prevented the NION from starting the project.

In this version, all characters received via the RS-232 port during the boot process, apart from the ESC (Escape) character, are ignored. Only the ESC character can interrupt the boot process.

Note: If your control system needs to send the ESC character to perform an operation (and you do not want it to interrupt the boot process), you will need to connect to the NION via the serial port and specify a new character using the *bootstopkey* environment variable. For more information, contact Technical Support.

301 - Clocking diagram did not perform any function

If you navigated to the **Special** / **advanced** screen in the NION web interface, there was a clocking diagram image and title that did not perform any function. They have been removed.

347 - Time zone master NION did not work in normal mode

When two NIONs were set up so that one was using master mode and the other normal mode, changing the settings over so that the master became the slave and the slave the master, stopped the time zone synchronization from functioning correctly. Once a NION had been operating as a master, it did not subsequently work correctly in normal mode.

348 - Changing Time zone settings for a country caused NION to stop functioning

If you used the front panel to specify a particular country in the time zone settings, for some countries the **ZONE** list was empty (as expected). If you then selected the empty **ZONE** list, tried to make a selection, then confirmed it by pushing the wheel button, the NION stopped functioning.

Known issues

NWare

57 - Additional steps needed for non-admin users running NWare under Windows XP

Currently, non-administrator users cannot run NWare or Kiosk without additional steps being completed after the installation.

The administrator must change the permissions of the *\program files\mediamatrix\nware <version>\plugins\nware\xml* folder to allow write access for the non-administrator users. Once this has been done, NWare and Kiosk will operate normally.

For more information, see *Allowing non-admin users to run NWare and Kiosk* in the *NWare User Guide*.

379 - Cannot uninstall via Control Panel under Windows Vista

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

  Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

385 - Selecting undo after adding certain devices causes NWare to close unexpectedly

If you drag a device from the device tree over to the page, open the device block, and then press CTRL+Z to undo the operation, in the case of certain devices, NWare will close unexpectedly.

Note: This does not occur when adding all types of devices, but we recommend avoiding this exact sequence of steps as a precaution.

Release 1.4.4 (September 11, 2008)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.4.4/Release_1.4.4.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

There are no new features in this release.

Bug fixes

NWare

CobraNet Conductor priority

In NWare 1.4.3, when you set the CobraNet Conductor priority to *Never*, it did not prevent the NioNode from becoming a Conductor. This has now been fixed, and the *Never* setting will work as expected.

Clicking a PDF link in the help caused NWare to close unexpectedly

In NWare 1.4.3, if you were running Adobe Reader 9, the following problem occurred:

If you opened the HTML help in NWare (by pressing F1 or clicking **Help** on the **Help** menu), then clicked one of the PDF links on the front page, NWare closed unexpectedly.

This issue has now been fixed. You can run Adobe Reader 9 or an earlier version and the PDF files will open as expected.

Known issues

NWare

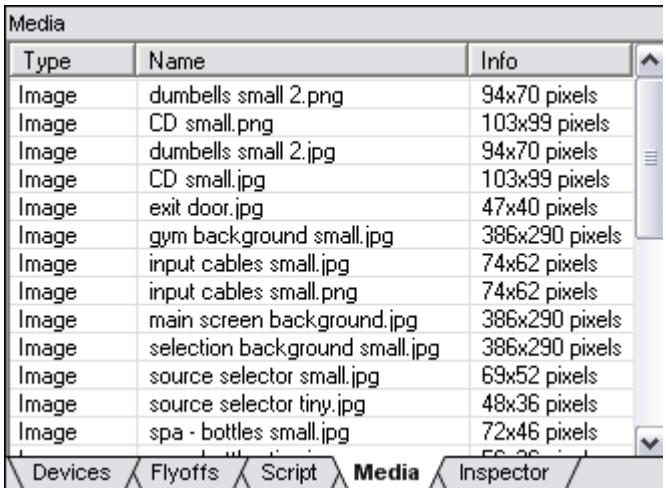
Windows Vista uninstall issue

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

Deleting media files on the Media tab

When you delete media files listed on the **Media** tab, they are no longer shown on the tab, but may still be stored in the NWare project file. The delete operation does not reduce the size of the file.



This problem occurs when you are editing a project file created in an earlier version of NWare. If you create a new project file in the current version, it does not occur.

As a workaround, you can delete the media files manually from the following folders:

Windows XP	C:\Documents and Settings\All Users\Application Data\MediaMatrix\NWare [version]\temp\[project file name].[reference number]
Windows Vista	C:\ProgramData\MediaMatrix\NWare [version]\temp\[project file name].[reference number]

When you save your project file, the size will be reduced.

Release 1.4.3 (September 5, 2008)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.4.3/Release_1.4.3.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

NWare

Incremental compilation

There is a new option for compiling a project: *incremental compilation*.

By default, each time a project is emulate or deployed, the NWare compiler recalculates the optimal allocation of processing tasks to available DSPs within a NioNode. With many devices in a large project, this process is extremely complex, and can mean emulation or deployment takes a long time. To increase the speed, you can use the *incremental compilation* feature. This instructs the compiler to only calculate DSP assignments for new devices that have been added to the design since the last successful compile. The other devices remain assigned to DSPs as they were previously. This may result in a slightly higher DSP usage figure than an optimal compile, but will take a fraction of the time.

Notes

- If a device has been assigned to a DSP manually by the user, this assignment will be kept regardless of whether the incremental compilation feature has been selected.
- If you use the incremental compilation feature with a very large project, with a very large number of devices, it may not succeed. Perform an optimal compile instead.
- If a compilation fails when incremental compilation is switched on, the user is given the option to perform a full compile. If the incremental compile failed due to resource limitations, the full compile may succeed. However, if the incremental compile failed for another reason, such as a feedback loop in the design, a full compile will not succeed.
- If the incremental compile fails, the message box that prompts the user to perform a full compile can sometimes be displayed behind other windows on the screen.
- Due to the complexity of the compile process, it is possible, although unlikely, that an incremental compile will succeed, but a full compile will fail.

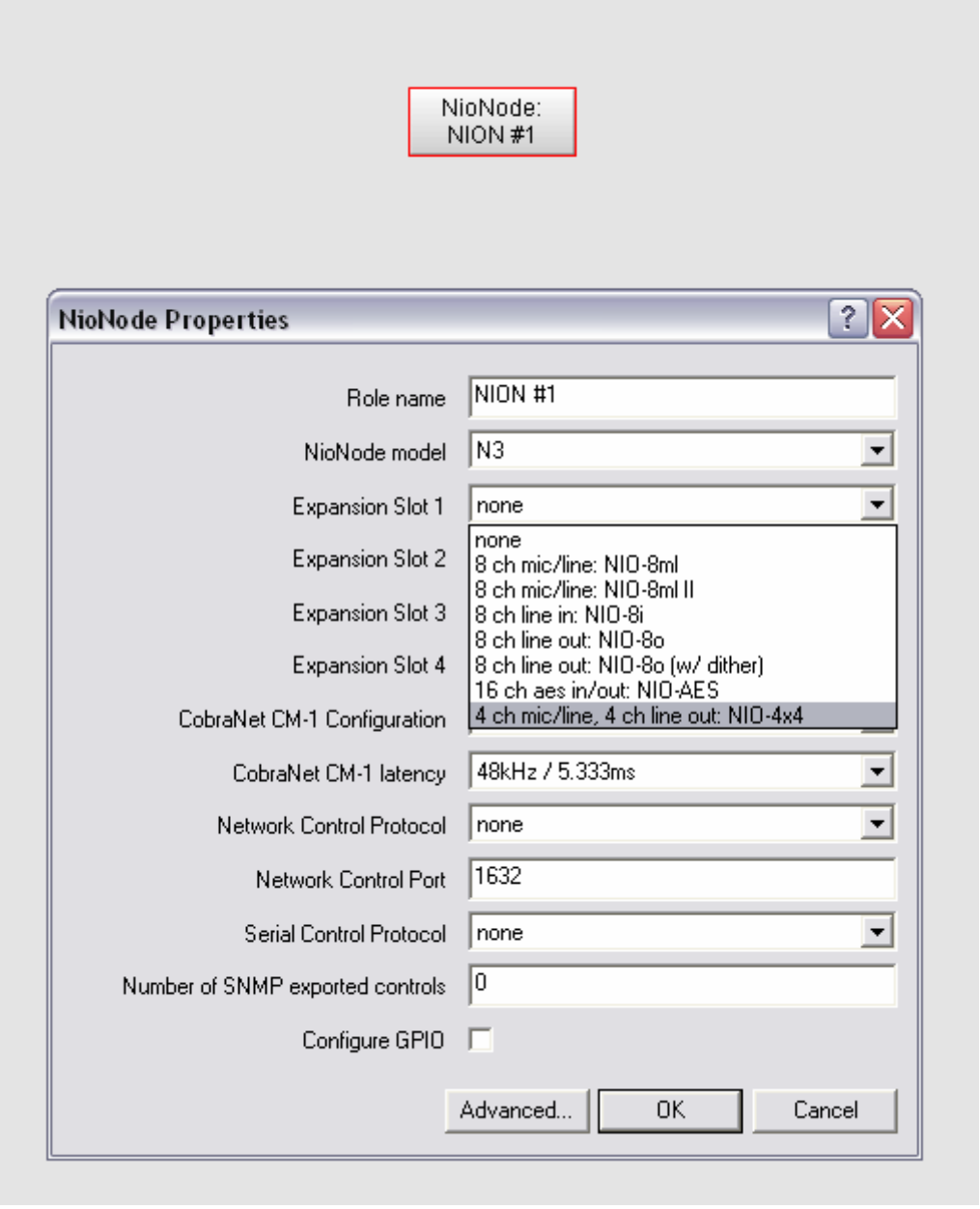
Tips:

- Incremental compilation requires spare DSP resources in order to function. As the utilization of each DSP in a NION increases, an incremental compile is less likely to succeed. We therefore recommend that you do not use 100% of the processing capacity of each NION when using incremental compile.
- To get the lowest possible DSP usage and latency figures for a design, ensure that incremental compile is switched off before emulating or deploying, but be aware that the compilation process may take a long time for a large design.
- We recommend that you always do a full compile before finalizing the installation and leaving the customer site.

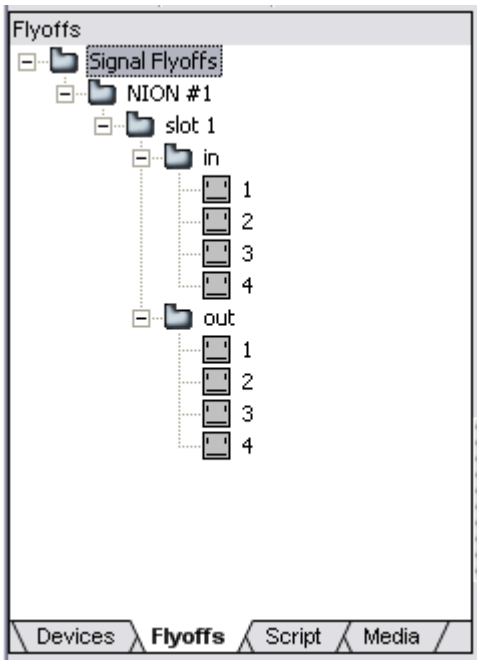
To select incremental compile mode, click the **Incremental Compilation** button on the NWare toolbar before compiling. When the button is pressed in, this indicates that the mode has been selected.

Support for new NION NIO 4x4 card

The **NioNode Properties** dialog box in NWare shows a new option for specifying a NIO-4x4 card in each of the expansion slots.

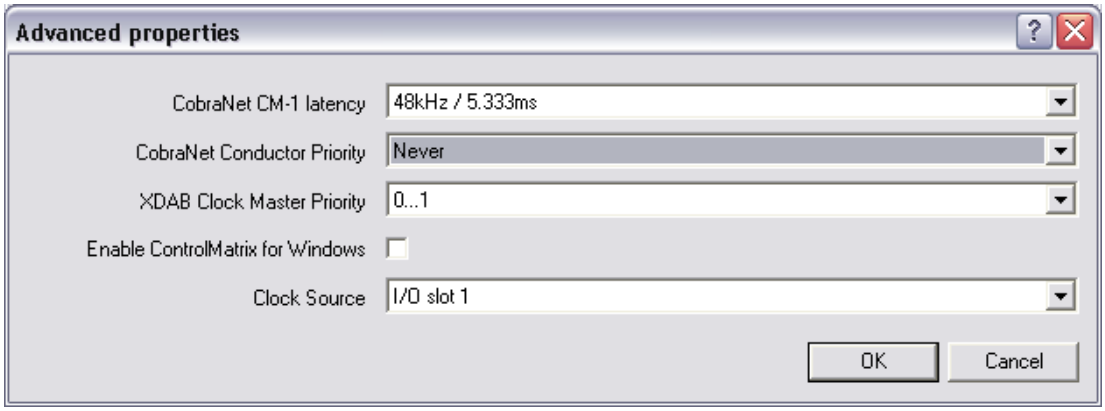


When a NIO-4x4 card is specified for a NION expansion slot, the **Flyoffs** tab shows four inputs and four outputs for the card.



New CobraNet Conductor priority setting

You can now specify a CobraNet Conductor priority of *Never* to prevent a NioNode becoming a Conductor.

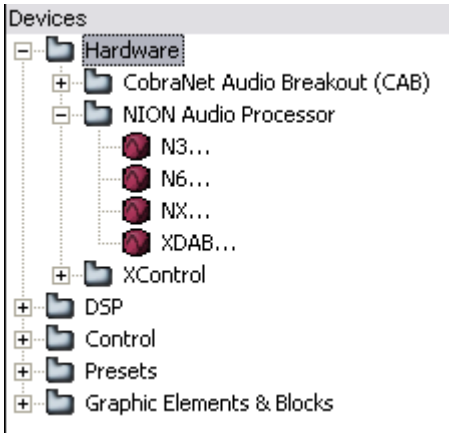


This is useful when the NION is a part of an XDAB cluster connected to a CobraNet network. If the CobraNet priority on the NION is not set to Never, an interruption in the CobraNet clock packets (*beat packets*) will often cause the CM-1 to briefly attempt to become the Conductor, resulting in an XDAB re-arbitration. This in turn results in a larger than necessary dropout in the audio.

Previously, under the NION device properties, you could only choose **0..1** for the lowest Conductor priority. This set the Conductor priority to 1 for the NION that is the XDAB master (all the rest were set to 0). The **0..1** option has been replaced with **Never**.

Improved device tree layout for NioNodes

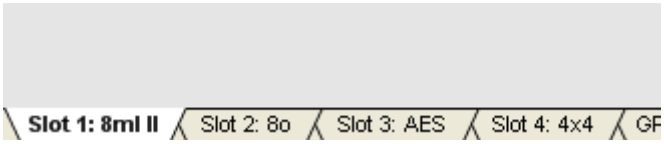
The layout of part of the device tree has been improved. Under **NION Audio Processor**, there are now just three options for creating NioNodes: **N3**, **N6** and **NX**.



These options are equivalent to the **Custom** options for each type of NioNode in previous versions of NWare.

More descriptive labeling of tabs on NioNode properties window

The tabs at the bottom of the NioNode properties window now have more descriptive labels for each type of card installed.



NION

New NION NIO-4x4 card

Features:

- Four analog mic/line level audio input channels
- Four analog line level audio output channels
- 24 bit A/D (inputs), 24 bit D/A (outputs)
- 48 or 96 kHz audio sampling rate supported
- High reliability DIN connector to backplane, using slide rail for alignment
- Mini-Euro connectors for easy input connection.

Bug fixes

NWare

Windows Vista Save As

Previously, under Windows Vista, when you selected the **Save As** option in NWare and attempted to overwrite a file, the program closed unexpectedly. This has now been fixed.

Delay compensation

The delay compensation feature is now working as expected. It did not function correctly in releases prior to NWare 1.4.3.

This feature is designed to compensate for delays caused by signal communication between DSPs in a NION. It is enabled by clicking **Project Properties** on the **File** menu, and then selecting the **Auto-compensate signal delays** check box on the **Project Properties** dialog box.

Note: If you have used this feature in a version of NWare prior to 1.4.3, when you compile your project in NWare 1.4.3, you may find that the delays have changed. This could affect the signal timing in some projects.

Serial Bridge Network device

The *Serial Bridge Network* device (for CAB serial bridging) did not function correctly in NWare release 1.4.0 and all subsequent releases up to and including 1.4.2. It has now been fixed in NWare 1.4.3.

Note: This device is only relevant to designs that use ControlMatrix devices.

Known issues

NWare

CobraNet Conductor priority

When you set the CobraNet Conductor priority to *Never*, it does not prevent the NioNode from becoming a Conductor.

Clicking a PDF link in the help causes NWare to close unexpectedly

The following problem occurs when running Adobe Reader 9:

If you open the HTML help in NWare (by pressing F1 or clicking **Help** on the **Help** menu), then click one of the PDF links on the front page, NWare will close unexpectedly.

Note: This problem does not occur when running versions of Adobe Reader prior to 9.

As a workaround, you can:

- access the PDF files from the Knowledge Center on the Peavey Oxford website.
- Uninstall Adobe Reader 9, then install a version of Adobe Reader prior to 9.

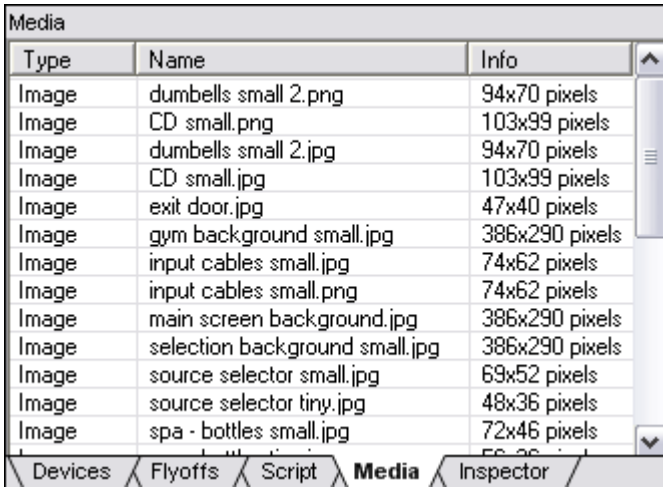
Windows Vista uninstall issue

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

  Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

Deleting media files on the Media tab

When you delete media files listed on the **Media** tab, they are no longer shown on the tab, but may still be stored in the NWare project file. The delete operation does not reduce the size of the file.



This problem occurs when you are editing a project file created in an earlier version of NWare. If you create a new project file in the current version, it does not occur.

As a workaround, you can delete the media files manually from the following folders:

Windows XP	C:\Documents and Settings\All Users\Application Data\MediaMatrix\NWare [version]\temp\[project file name].[reference number]

Windows Vista	C:\ProgramData\MediaMatrix\NWare [version]\temp\[project file name].[reference number]

When you save your project file, the size will be reduced.

Release 1.4.2 (May 13, 2008)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.4.2/Release_1.4.2.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features

NION

- Time zone synchronization support. Previously, the time was synchronized between units, but the time zone was not. Now, both the time and the time zone are synchronized.
- Synchronization to a Network Time Protocol (NTP) server. This allows NIONs to be accurately synchronized to either a local time server or one on the Internet.

  A time server can be contacted using a domain name or an IP address.

  The **Synchronization Domain** setting has been removed from the **Time and Timezone** page of the web interface.

  Note: NIONs running firmware prior to 1.4.2 will not synchronize time settings with NIONs running version 1.4.2 or later.

NWare

- There is a new device property for the mixers and multi-channel gain controls. This is called *live taper*. If you check it, the fader tapers are adjusted to be more like a live mixing console taper. The result is to make it easier to make fine adjustments at higher gain levels (by decreasing the rate at which the gain changes when it is near the maximum).
- You can close an open block on the page by pressing CTRL+F4.

  Note: Currently, you can also use **ESC** to close an open block. This feature will be removed in a future version.

- You can display the online help within NWare, by pressing F1.

  Note: If you click another part of the window outside the design area, pressing F1 will no longer work. You must click the design area again, and then press F1.

- The NWare help system now includes all the user documentation, in a searchable format. There are also links to PDF versions of the manuals on the front page.

  There is an improved section on using NWare in Kiosk mode.

Kiosk

- You can now hide the tabs at the bottom of the NWare Kiosk screen by adding this tag to the personality file: `<hide_root_tab value = "true" />`.

Bug fixes

NION

- Previously, when the NION booted, it was possible for a character received via the RS232 port to interrupt the boot process and cause it to enter a debug console mode. This caused problems in systems that used a control device to poll the NION. Now, only the DEL character can interrupt the boot process. The character is not used in normal control protocols.

  Tip: You can also set an environment variable, *bootstopkey*, in the flash, to specify an alternative character or character sequence.

- Disconnecting the CobraNet cable from a NION no longer causes an XDAB re-arbitration, unless the cable is disconnected from the XDAB leader.
- The software no longer refers to the **Front Serial Port**, as it was moved in current generation NIONs to the rear. It is now called the **RS232 serial port**.

NWare

- NWare now supports Windows user names that contain non-Latin characters.
- Previously, when you right-clicked the **Find Results** tab at the bottom of the NWare window, the application closed unexpectedly.
- The sizes of some devices have been adjusted to display their labels correctly.

Notes:

- NWare does not support Windows path names that contain non-Latin characters.
- When you upgrade NWare to version 1.4.2, only the user preferences for the currently logged on user will be copied from the previous version. It is not possible to copy settings for other users who have logged on to the PC and used NWare. Version 1.4.2 of NWare (and future versions) will only store user preferences for a single user on the PC.

Known issues

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

  Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

- If you deploy a project created in NWare 1.4.2 to a NioNode running 1.4.1 firmware, the role will stop and start, and then eventually stop.

  As a workaround, when you want to deploy the project, hold down the SHIFT key when you click the **Deploy** button. This will force a recompile of the project, before it is deployed.

  Tip: To reduce the risk of compatibility problems, we recommend that the version of firmware running on the NION matches the version of NWare you are running.

Release 1.4.1 (February 4, 2008)

Live Update

Sometimes, more up-to-date release notes are available online. *Click here* (*http://www.peaveyoxford.com/Documentation/1.4.1/Release_1.4.1.htm*) to download the latest version from the Peavey Oxford website, then press F5 to refresh the display.

Features (introduced in version 1.4.0)

- Windows Vista is now supported.
- Renamed the X-Control 4s to X-Control 4S Switch Mode.
- Moved the snapshot device to the Presets group.
- Renamed device "Panel Block" to GUI Block".
- Moved the Room Combiner Device to the Processors group.
- Added Accelerator hints to the right-click menu.
- The page display can now be panned using spacebar+drag. You can also use middle mouse button+drag to pan the display, as in previous versions.
- New drag mode displays objects when they are dragged, rather than just their outlines. You can switch this mode on and off using the **Outline Drag** option via **Tools / User Preferences**.
- Ctrl+click and drag of devices now requires a longer drag distance to prevent accidental duplication during multiple selection.
- While in wiring mode, you can now use the shift+arrow keys to move blocks.
- Renamed the File/Properties menu item to "Project Properties".
- Added a brief description of how to assign roles to the deploy dialog.
- Modified the Upload and Connect dialog boxes to improve clarity.
- Added pre-built logic devices, such as "OR" and "XOR". These are smaller than the ones created by default with the Control Operator device.
- Added more pre-built meters.
- Added a new HFO, high frequency oscillator. This oscillator has a range from 16k to 48k.

  Note: You still cannot exceed 1/2 the sampling frequency.

- The high pass filter on the Automatic Mixers now defaults to 80hz. Also, you can now easily adjust this.
- A new help file has been added. This is still very incomplete and is work in progress.
- You can now use the Expression Label feature to automatically generate control Aliases.
- Major changes have been made to the Device Menu. Changes include more pre-built devices, better category names, etc.
- Mono Wave recorders have returned.
- Kiosk enhancements have been made, including the optional hiding of the tabs and elimination of the red selection being drawn around controls.
- The USA daylight saving time changes are now supported.
- Minor installer improvements.
- Improved cab polling to reduce network load.
- Items on the Tools menu have been moved to a submenu called "Control Nodes" to improve the clarity of the user interface.

- Added new accelerator keys. For more information, see Keyboard accelerators in the NWare User Guide.

Bug fixes

- In NWare version 1.4.0, when you attempted to edit a flyoff, NWare closed unexpectedly.
- The undo feature did not behave as expected after a drag and drop operation in NWare.

  If the Outline Drag option was switched off (via Tools/User Preferences), and you dragged and dropped an object on the page, when you undid the operation, the object was not returned to its original position - it was moved a step backwards towards its original position. You had to select the undo option multiple times in order to return the object to its original position.
- After installation, NWare operated in Outline Drag mode, but the Outline Drag check box (available via Tools/User Preferences) did not show as selected.

  If you selected the check box, NWare remained in Outline Drag mode. If you then subsequently cleared the check box, NWare switched to full graphics drag mode.

Known issues

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

  Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

Release 1.4.0 (December 19, 2007)

Features

- Windows Vista is now supported.
- Renamed the X-Control 4s to X-Control 4S Switch Mode.
- Moved the snapshot device to the Presets group.
- Renamed device "Panel Block" to GUI Block".
- Moved the Room Combiner Device to the Processors group.
- Added Accelerator hints to the right-click menu.
- The page display can now be panned using spacebar+drag. You can also use middle mouse button+drag to pan the display, as in previous versions.
- New drag mode displays objects when they are dragged, rather than just their outlines. You can switch this mode on and off using the **Outline Drag** option via **Tools / User Preferences**.
- Ctrl+click and drag of devices now requires a longer drag distance to prevent accidental duplication during multiple selection.
- While in wiring mode, you can now use the shift+arrow keys to move blocks.
- Renamed the File/Properties menu item to "Project Properties".
- Added a brief description of how to assign roles to the deploy dialog.
- Modified the Upload and Connect dialog boxes to improve clarity.
- Added pre-built logic devices, such as "OR" and "XOR". These are smaller than the ones created by default with the Control Operator device.
- Added more pre-built meters.
- Added a new HFO, high frequency oscillator. This oscillator has a range from 16k to 48k.

Note: You still cannot exceed 1/2 the sampling frequency.

- The high pass filter on the Automatic Mixers now defaults to 80hz. Also, you can now easily adjust this.
- A new help file has been added. This is still very incomplete and is work in progress.
- You can now use the Expression Label feature to automatically generate control Aliases.
- Major changes have been made to the Device Menu. Changes include more pre-built devices, better category names, etc.
- Mono Wave recorders have returned.
- Kiosk enhancements have been made, including the optional hiding of the tabs and elimination of the red selection being drawn around controls.
- The USA daylight saving time changes are now supported.
- Minor installer improvements.
- Improved cab polling to reduce network load.
- Items on the Tools menu have been moved to a submenu called "Control Nodes" to improve the clarity of the user interface.
- Added new accelerator keys. For more information, see Keyboard accelerators in the NWare User Guide.

Bug fixes

- Fixed a problem with the CAB 8i, selecting 3dB now really gives you 3dB.
- Subchannel mapping for CAB's now works.
- Fixed the expression label toolbar button.
- Fixed the missing control nodes on the Control Block devices.
- Fixed the copying of settings on first run.
- In previous releases, the NION CobraNet bundle priority setting was ignored. This has been fixed.
- The missing Kosmos device bitmap has been added back.
- We no longer highlight in orange the signal processing resources that are close to full in the compile results report. Orange highlighting incorrectly implied a warning.
- The duplicate rows in the CAB 8o device have been removed.

Known issues

- To uninstall NWare under Windows Vista or Windows 7, you must navigate to the NWare shortcut in the Start menu, click the shortcut, and then click **Uninstall NWare <version>**.

  Note: It is currently not possible to uninstall NWare via Windows Control Panel, even if you are logged on as Administrator.

- The undo feature does not behave as expected after a drag and drop operation in NWare.

  If the Outline Drag option is switched off (via Tools/User Preferences), and you drag and drop an object on the page, when you undo the operation, the object is not returned to its original position - it is moved a step backwards towards its original position. You must select the undo option multiple times in order to return the object to its original position.
- After installation, NWare operates in Outline Drag mode, but the Outline Drag check box (available via Tools/User Preferences) does not show as selected.

  If you select the check box, NWare will remain in Outline Drag mode. If you then subsequently clear the check box, NWare will switch to full graphics drag mode.

Release 1.2.6 (July 9, 2007)

Features

- Faster Booting. The Nion now takes about 10 seconds less time to boot and start passing audio.
- XDAB failure retries are now limited. Previously, a bad cable could cause the units to continuously retry to connect, resulting in bursts of audio output. Now, after a couple of tries, the retry interval is increased (to a maximum of 30 seconds). This also may help units that have problems achieving XDAB sync.
- The CobraNet low latency (1.3ms and 2.6ms) modes are now supported.
- The new installer by default installs the software in a unique directory and gives unique shortcuts. This allows for the independent installation and removal of NWare versions.
- When the new version of NWare (1.2.6) is run for the first time and finds a previous version of NWare, it offers to copy configuration files, user-preference files, Custom Devices, firmware zip files and Project files from the previously active version of NWare (i.e. the one located in Program Files\MediaMatrix\NWare) into the new installation (i.e. at c:\Program-Files\MediaMatrix\NWare1.2.6).

  Note: If your previous installation was someplace other than c:\Program-Files\MediaMatrix\NWare you will need to copy your files and reset your preferences manually.
- ControlMatrix devices have been removed from the standard device menu. If you need these, use the NWare++ personality switch.
- Added a System Status page to the front panel. This gives you a display of the CPU load. This reflects the amount of control activity. If the 5 or 15 minute load readings are greater than 2, you should consider reducing the control activity. Heavy load can be due to python script problems, or too many Kiosk clients.
- If too many recorders or players are included in a design (<12 for an N6) the NION will compile properly but not run. Previously, this failure was difficult to diagnose. A more descriptive error message is now written to the log.

Outstanding issues

- The NIO-8i card +3dBu sensitivity is actually +15dBu. So when you go from 6dBu to 3dBu, the level will actually go 9dB lower instead of 3 dB higher. The workaround is to set sensitivity to +6dBu and adjust Digital Gain to +3dB.
- Mono recorders not been working in the last couple of releases. We have removed them from the device menu until the problems have been fixed.

Bug Fixes

- XDAB reliability bugs introduced in NWare version 1.2.5 have been removed.
- Fixed a bug that was causing the grid to be drawn incorrectly at certain zoom settings.

Release 1.2.5 (September 25, 2006)

Features

- Now supports NION nX via the new NioNode **NX** device. Only two card slots are available. XDAB usage is disallowed and will be shown by a compiler error if XDAB is connected to the NX role.
- All CAB devices now offer an Advanced SubChannel Mapping feature (in the Advanced Properties dialog). This allows Advanced CM-1-style bundle assignment of audio channels. 4 bundle transmitters and 8 bundle receivers are available in this mode.
- Many improvements have been made to all ControlMatrix devices. No ControlMatrix devices provide input and output wiring nodes. Instead, NWare automatically creates input, output and XDAB Flyoffs that begin with *CM...*, which can easily be connected directly to I/O or to additional processing. This saves time and complication in setting up medium to large ControlMatrix projects.
- The new ControlMatrix devices have been renamed to prevent conflicts when adding older ControlMatrix devices. You can either load your 1.2.4 project into this version and replace all the ControlMatrix devices with new versions and use the new Flyoff method-- Or, you can continue to use your existing devices.
- To continue using your old ControlMatrix devices, you will need to copy specific files from your 1.2.4 installation into your 1.2.5 installation folder. Here is a list of files that need to be copied. Copy these files from the \plugins\nware\devices\composite\ folder of 1.2.4 to the same subfolder of the new installation:

  cm_local.if.xml

  cm_local.pres.xml

  cmbigzone.if.xml

  cmbigzone.pres.xml

  cmbigzones.if.xml

  cmbigzones.pres.xml

  Note: that the relative paths within each NWare folder are the same.

  After copying these files, you must restart NWare for the program to recognize their existence.

  You will still be able to update the properties and make copies of the devices, but they will not appear in the devices list. It is advisable to simply open the properties and click OK of the following devices (so the updates to those devices can be applied:

  Inputs (Blue blocks)

  Logic (Red blocks)
- The NWare installer now offers to back up the existing installation if a prior version is detected. This allows you to go back to previous versions in case it is needed or if you have to work with files from multiple versions. If you don't want to create this backup, click "No."

Release 1.2.4 (July 24, 2006)

Features

- Support added for NIO-8i 8-channel line input card.
- New components for making very large, distributed ControlMatrix systems.

Note: These devices require strict DSP assignment and XDAB usage. Use these devices for ControlMatrix designs that either exceed 30 inputs x 30 zones or are distributed across multiple projects using the forthcoming CMProxy software.

- Control Delay: delay and pulse maximum times can now be adjusted via the Device Properties. The default values are 120 seconds, but this value can be extended up to 10800 (3 hours).
- Relaxed the range of properties in the snapshot device. Maximum input count is now 256. Maximum bank count is now 64.

Bug Fixes

- Optimized the extract part of the compile process that takes an extremely long time when a large number of devices are wired to the same connection.
- Fixed a bug that prevented Kiosk from connecting to a project that was emulated if it was not already fully compiled.
- Fixed a problem with the ExpressionLabel command where a decreasing sequence was displayed as "-=-N" which was interpreted as incrementing and thus did not preserve the original sequence.

Release 1.2.3 (April 18, 2006)

Features

Added new keyboard accelerators for Align and Pack. Previously, only Pack Left and Pack Top had accelerators. The accelerators for the Align commands are exactly the same, but with the Shift key included:

- Pack Left: Ctrl-L (same as before)
- Pack Top: Ctrl-T (same as before)
- Pack Right: Ctrl-R
- Pack Bottom: Ctrl-B
- Align Left: Ctrl-Shift-L
- Align Top: Ctrl-Shift-T
- Align Right: Ctrl-Shift-R
- Align Bottom: Ctrl-Shift-B.

Bug fixes

Fixed a problem with DSP timeouts that caused a project to fail to run because too few DSPs were detected.

Release 1.2.2 (April 13, 2006)

This software was not released to customers.

Release 1.2.1 (April 8, 2006)

Bug fixes

Fixed a problem that caused the compile to fail with "unmapped segment" error related to serial ports.

Fixed a long standing problem with project linking where "write" controls (from the perspective of the client) are not always sent to the server when the client first connects or if it reconnects to the server.

Release 1.2 (March 9, 2006)

Features

General

- Added support for ControlMatrix integration via a new ControlMatrix device in the Control menu. This device is intended for centralized ControlMatrix designs. Some customization is required for more complex NION arrangements (i.e. multiple projects) or interoperability with ControlManager. Contact Peavey should you need more assistance.
- Support for the custom NioNode SNMP extensions has been moved to the new Peavey registered namespace: `iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).peavey(24603).nion(1).nionode(1)`. SNMP subagent functionality is unchanged. A new MIB definition reflecting these changes can be found at: `NWare\plugins\pion\doc\PEAVEY-NION-NIONODE-MIB-V2.my`.
- Added the ability to add SNMP control and monitoring for up to 256 controls per physical NioNode unit. To add SNMP Flyoffs to the NioNode in the Flyoffs tab, put the total quantity needed into the 'Number of SNMP exported controls' field of the NioNode properties dialog. If the quantity is greater than 0, an 'SNMP Exports' tab will be added to the NioNode device. In the row for each control, there is a 'R/O' button and a Label field. When 'R/O' is off, the control can be read and set via SNMP. When on, the control is read-only. Read-only is the default setting. Since the SNMP flyoffs and the 'exportedControlTable' in the MIB keep track of the controls via their "index" number, you should enter a short description in the label field that will also be viewable in the exportedControlTable as 'controlLabel'. SNMP flyoffs should only be wired to master nodes on controls that you want to monitor or control. To provide SNMP control of a Python script, you should wire a generic control to both the Python script and to the SNMP flyoff.
- Added support for the NIO-AES digital audio IO card.
- Added control to enable RS-485 unicast addressing in the CAB's RS-485 tab.
- Added filibuster mode to PageMatrix logic device. This enables 'first-come-first-serve' logic on stations of equal priority. In order for this to work, you must also set priorities equal on intended station/zone combinations.
- 'Copy control attributes' now copies polygon shapes as well as general control settings.
- The following control operator functions are now multichannel aware - invert, negate, absolute value, threshold, hysteresis, toggle on rising edge, toggle on falling edge, value link, position link, and string link.
- Changed default low/high pass filter type to Linkwitz-Riley so default crossovers have a flat frequency response.
- Added drop-down list of pages in Launcher dialog box.
- Added control ruid and device id to 'Find control' dialog box if a control was selected.
- Added string mulitplexer/demultiplexer devices, created for sending a lot of control values through one wire of the Project Linker devices.
- Added the % operator to the expression evaluator. This restarts the sequence after n iterations. For example "Input {1+=1%4}" would give "Input 1", "Input 2", "Input 3", "Input 4", "Input 1", "Input 2", "Input 3", "Input 4", etc.

- Added new keyboard commands - The ENTER key now opens the selected block(s) and the ESC key closes the window with focus.
- Added option for Kiosk mode to hide root level tabs.
- Added option for Kiosk mode to hide cursors.
- Kiosk page changes are now always deployed - before if no DSP or control wiring changes were made the user was required to force a recompile by holding the shift key while hitting the deploy button.
- Default User logon is now case-insensitive.
- Added optional XML based configuration for running NWare in Kiosk mode. The old command line options have been removed. The new command line looks like: "NWare.exe /personality=nware_kiosk kiosk_config.xml".

  The xml file should be in the form :

```
<kiosk>

<name value="kiosk_test" />

<compile_id value="" /> <!-- only necessary if there are multiple compiles of the

same project on the network -->

<deploy_id value="" /> <!-- only necessary if there are multiple deployments of the

same project on the network -->

<username value="3" />

<hash value="" /> <!-- can use prehashed password if you don't want to store the

password in plain text in this file -->

<password value="3" />

<hide_root_tab value="true" /> <!-- defaults to false -->

<hide_cursors value="true" /> <!-- defaults to false -->

</kiosk>
```

Note: The 'hash' referred to above can be generated within NWare by pressing Ctrl-Shift-H. A Generate Hash dialog will be displayed. You should enter the same username used in this xml and a password. The resulting hash code should be entered within the <hash value="" /> quotation marks. Use only the hash or password element, not both. Obviously, the username and password (explicit or the hash) used here, must match the username and password stored in the deployed project.

ControlManager

Added support for direct CAB control. Here is how to set it up:

1. From a command prompt, type `conman -adapters` and press Enter.

   A list of discovered adapters will be shown with a `Device ID:...` line which shows how Windows refers to the adapter.
2. Choose the appropriate NIC (on the CobraNet network) and copy the line from `\Device...` to the end.
3. Open the `conman.cfg.xml` file in a text editor.
4. Add a line after line 3 that incorporates the bit you copied from the printout of adapters like this:

```
<cab_adapter value='\Device\{3bcabbb8-8809-41e2-8e0f-d4c98fdfe6e3}' />
```

Note: This line is the example from the file, but the part within the {}'s needs to be the one you got from the printout of adapters. This functionality will be included as an automatic part of future ControlManager installers.

Bug fixes

- Fixed bug which made it impossible to switch from XControl PASHA back to regular PASHA without a reboot.
- Fixed bug which caused the project file to not be properly saved to the NioNode in some cases due to the location of the saved project file (on a different drive than the install, on the root of the drive, etc.).
- Fixed bug which caused increment or decrement strings (++1, --2, etc) not work if the increment or decrement value was larger than the maximum value of the control.
- Fixed issues with arrow key selection which caused the selection to not be as expected.
- Fixed bug which caused PageMatrix priorities to be limited to the number of zones and not the number of stations.
- A problem with the ambient level sensing router getting stuck with the wrong input selected while the ambient level is fluctuating rapidly has been corrected. The router now also aborts a cross-fade if the input selection is changed while the cross-fade is in progress.
- Fixed bug which caused `Bring to Front` command to not work properly if there were wires in the container window.
- Fixed bug where there was a 1.5 second delay when initially connecting via RATC which caused problems with ControlMatrix.
- Fixed bug which made GPIO analog input calibration not work properly across a redeploy.
- Fixed bug where .npa files with long file names opened from outside NWare had 8.3 truncated names in NWare (and saved back to those incorrect names).

Release 1.1.3 (October 24, 2005)

Features

- Added Chapters 1 through 7 of the highly recommended book, *Dive Into Python*, to the help file.

Bug fixes

- Inadvertently included some files from 1.1.1 which should have been replaced with 1.1.2 versions. In some cases, this prevented files to be emulated.
- Fixed a bug that caused some graphics (Kosmos, for example) to not be displayed when viewed from NWare:Kiosk sessions.
- Fixed a bug that prevented the 2D Control device from working properly.

Release 1.1.2 (October 17, 2005)

Bug fixes

- Fixed a bug related to master->slave control wiring that spanned across boxes. If the box that the slave control was on rebooted, the control would not be synched up with the value of the master control. This only affected master->slave links where the master was on one box and the slave was on another.

- Fixed a bug where multiple GUIs and Kiosks would have timeouts when connecting to a NioNode with a very large number of controls.

Release 1.1 (September 12, 2005)

This software was not released to customers.

Features

NWare/NION General

- Added support for XControl trigger-style controls. There are now two options for PASHA serial control protocol - PASHA/PageMatrix and PASHA/XControl. Use the latter so that the *T* command acts as an XControl trigger command. PASHA/PageMatrix is the same as the old PASHA protocol.

There is a new version of the RATC control protocol - RATC2 RAW. It supports control access to all controls without the use of control aliases. Instead of using a control alias to reference a control, a string based on the *device_id* of the parent device and the ruid of the control is used (in the form *//devices/device_id/controls/control_ruid*, where *device_id* and **control_ruid** must be determined using the Inspector window). In addition, the external controller must know which NioNode or nControl node each control resides on when using RATC2 RAW.

Note: This protocol is intended for advanced external control and should not be used as a replacement for standard RATC2.

- CAB serial bridging raw MAC mode: added raw MAC-based RS-485 CAB addressing for ControlMatrix compatibility. This check box is hidden within the advanced section of the CAB properties dialog box.
- Added block property to only require a single click to open a block while in gesture mode.
- Added a setting on the **User Preferences** dialog box called **Deep Locate** that allows the GUI to open blocks when locating objects by clicking on the compile results or the find results. This preference defaults to checked which allows the existing behavior. If the preference is unchecked, the GUI will highlight the block containing the locate target, but will not open that block. This means it will take more clicks to actually get to the located object, but some may find this less confusing than having blocks pop open automatically.
- Added NioNode Diagnostics to NWare. It is currently in a somewhat unfinished state.

  Note: Before running diagnostics, the role running on the NioNode must be erased or the diagnostics will fail and bad audio may come out of the system.

- Added new *ExpressionLabel* auto label generator syntax. This replaces the older AutoNumber Flyoffs and AutoNumber Labels dialogs. This function is much more powerful than the AutoNumber function.
- Added new 'Gesture Wipe' mode. In this mode, if a click-drag operation is started on either a button control or empty space, any button that is passed over while the mouse button is down is automatically pressed/released. This mode is useful for running on touchscreen computers. To enabled this mode, add the following to the \plugins\nware\preferences.xml or \plugins\nware\kiosk_preferences.xml:

  ```
  <item name="enable_wipe_gesture" value="true" />
  ```

- Added full-screen option. Available from right click context menu or command line option (`/fullscreen=true`)
- Added an enable control to the blinker device.

- Added new **Duplicate Special...** command (CTRL+SHIFT+D) which allows a user to specify the orientation (horizontal/vertical) and number of copies to create.

New Devices

- Added the Signal Probe device. The Signal Probe works across a set of NioNodes connected by XDAB, and allows the end-user to dynamically monitor any wire or device wiring node.
- A Wave File Recorder device has been added. That's right - you can now record wave files as well as play them. The number of channels that can be recorded simultaneously on a NioNode has not been fully determined. We also probably need a scheme to protect against the NioNode running out of disk space while recording - proceed with appropriate caution.
- Added a Huge Mixer Controller device. This virtual device provides a single set of send controls that are mapped, by pressing a select button, to the array of send controls in a (potentially) big mixer made up of multiple mixers, each producing some of the outputs.
- Added an Auto Group control device. Place this inside a hierarchical block and all of the read-write controls from the other devices inside that hierarchical block with the same ruid will be automatically grouped together. Use this to make stereo or multi-channel devices where all channels share the same settings.

  Note: This does not work very well for graphic equalizers.

- Added a Register control device. This multi-channel device latches the values of the input controls on the rising edge of the clock input and sets the latched values to the outputs on the falling edge of the clock input. This is useful from creating certain kinds of logic (like state machines) that are otherwise difficult due to race conditions.
- Added the Control Router device.

Improvements

- Modified X-Control Device to work with the automatic control wiring assignment.
- Modified PageMatrix device to be able to generate versions with more than 16 paging stations. The PageMatrix hardware only supports 16 stations, but many people use the PageMatrix device without the hardware and might need very big devices. The maximum is now 99 stations and 99 zones.

  Note: Large PageMatrix devices can take several minutes to generate. NWare may become unresponsive during this time.

- Improved error reporting of sample rate mismatches in compile results.
- Improved error reporting of wiring between NioNodes without XDAB.
- Endpoint hover text is now shown when wiring to make it easier to tell what you are wiring to.
- Project compile settings now validate property values so that dangerous values are disallowed.
- Increased the default attack time of the Limiter from 100us to 10ms in order to avoid signal distortion.
- Previously, if only one NioNode was wired to an XDAB, the compile would succeed, but during runtime XDAB failures would cause the NioNode to mute. Now the compile will fail with a message *...only one NioNode wired to this XDAB....*
- Fixed warning messages when NWare is launched after ControlManager has been run as a service on the same PC.

- The Wave Recorder and Player do not require the .wav extension to be entered in the File Name control. If the file name does not end in .wav (or .WAV), the .wav extension will be assumed. This fixes the situation where a wave file can be recorded with a name that overwrites one of the units configuration files, rendering it unable to run the role.
- Improved performance on CAB control. Previously, the poll time would increase linearly with the number of CABs at 200ms*num_cabs. Now the poll time should be a constant 200ms for all CABs regardless of how many CABs the NioNode is controlling. It is suggested that a NioNode should not control more than 8 CABs.
- Hover text can now be changed from the control properties.
- Hovering or selecting a control with a control alias displays the alias in the status bar. The text associated with the control will also be displayed in the status bar.
- Added graphic object property to lock the size so it cannot be resized by click-dragging on the object.

Python

- In scripts, calling changes_get() on an input now works with threaded scripts. Once called, the changed state is cleared on both threaded and regular scripts.
- The Python script editor now supports find (CTRL+F) and find/replace (CTRL+H). Replace All and regular expressions are also supported.
- The Python script editor now gets user confirmation when closing the editor if the script has been changed.
- Added support for data bit, stop bit, parity and full/half-duplex configuration of the Python based serial port. The serial port constructor has 4 optional arguments - serial_port.create(name, baud_rate, data_bits, stop_bits, parity, half_duplex). See PythonSerial for more information.

NWare: Kiosk

- Removed the unnecessary pace::file warning about missing media.zip when uploading for Kiosk.

Bug Fixes

- Fixed the bug which caused the text_box control style dialog to display the Font Size as an empty value, which would in turn cause the text to display infinitely small.
- Fixed a bug which caused the find results to not be clearable.
- Fixed a bug which occasionally made the last line in the Log window unreachable.
- Fixed a compile bug which generated unrunnable DSP code for some designs that used very large SDRAM delay buffers.
- Fixed bug which caused scroll bars to not be visible in certain situations.
- Fixed bugs in 'Save As' code which incorrectly disallowed using 'Save As' to save over the current file as well as saving the same file name to a different directory on the disk.
- Fixed a bug that caused the compile to fail if the output and input of the same channel of an XDAB were wired together. These wiring mistakes should still be avoided.
- Fixed glitch during looped wave file playback.
- Fixed bug where sometimes the tail end of the previous wave file was played when a new file is started.
- Fixed bug which caused the hover 'tooltip' popup to be incorrectly positioned on machines with more than one display.
- Fixed bug which disallowed empty passwords for project users.

- Fixed a bug where the valueIs RATC2 response has an extra % at the end when running on the Nion but not under the emulator.
- The sub-preset controller device is now placed on the NION or ControlNode which contains the greatest number of controls in that Sub-preset domain. This fixes an apparent error in the situation when the NION containing the sub-preset controller contained none of the controls in the sub-preset. In those cases, the sub-preset file did not exist on the NION containing the controller; pressing the load button would result in an error indication, even though the command was successfully sent to the other units that contained portions of the preset and they loaded it successfully.
- Fixed potential instability problem of parametric equalizer in shelf mode.
- Fixed a bug in XDAB'ed systems where some of the NioNodes sent only a small number of channels to the XDAB and others sent many, possibly causing distortion on one of two XDAB channels in the design.

Release 1.0.2

Features

- Changed the limit on the number of walls in the room combiner from 32 to 128.
- Changed the limit on the input and output count properties of the python script function from 64 to 256.

Bug Fixes

- Fixed bug in pink noise generator which caused a roll-off in the high-frequency.
- Fixed bug which could cause the parametric EQ in shelf mode to go unstable and/or oscillate when using XDAB.
- Fixed bug which caused delay lines to stop passing audio following an XDAB rearbitration.
- Fixed bug which caused the Wave Player output to be 20dB quieter than it should be. Corrected distortion problem (8-bit mono and stereo, 16-bit mono), as well as channel-swapping problem (8-bit and 16-bit stereo).

Release 1.0.1

This software was not released to customers.

Bug Fixes

- Fixed bug in python script engine which caused negative integers passed into value_set() to be interpreted as very large positive integers.
- Fixed router bug which caused ramping to and from the 'off' state to output incorrect audio.
- Fixed bug which caused the device and flyoff icons to not draw if the Windows system icon size what changed from the default.
- Undo menu command is now correct after inserting a device, flyoff, or image.
- Fixed bug which caused deploying to large number of NioNodes to fail with a 'TRANSIENT' error.

Release 1.0 Patch 1

Bug Fixes

- Some files were inadvertently omitted from the 1.0 release to fix the RC1 router problem. This would result in the wrong audio input to be routed to a router's output. This patch corrects the problem.
- Updated Known Issues. Some items were removed (fixed).

Release 1.0

Features

NWare

- New Devices:
  - Auto-Created PageMatrix Device

    Note: Large station or zone counts can take several minutes to create.
  - Reverb (same as in MWare and XWare)
  - LCR Matrix (same as in MWare and XWare)
  - X-Control Device (makes it simpler to implement X-Control devices in NWare)
- Find Improvements:
- If the lower frame is closed, it now opens to display the Find Results page when using Find feature.
- Only clickable lines in the Find Results report underline and highlight when moused over.
- The lines corresponding to items found are indented.
- Some instructions are included in the footer.
- The stored compile report is now displayed when a project is loaded.
- Simplified some devices (Feedback Ferret, Ambient Sensing devices, Kosmos, Vocal Eliminator) to make them occupy less hard drive space and appear more quickly when dragged from the device menu. Old versions of these should be replaced for proper functionality. This change doesn't remove any functionality from the devices.
- Added node labels to several devices to make it easier to use. Some devices don't show node labels when the input or output counts are very small.
- Previously, when deploying or emulating, the GUI would attempt to establish the control connection to the roles using the *defaultuser* account. As long as this account had Control Settings Access of at least Read-Only, the user was not prompted to enter a username and password. Now, the control connection is established using the Preferred User account that is selected from the File -> Preferred User... menu item.
- Added right-click help on devices from the device tree view. This function will be much more useful once the help file is complete. At the moment, only Scheduler and Schedule Generator have help available with this method. We will post a patch in the near future with a more complete help file, so this function will actually be helpful.
- Added advanced preference to enable/disable Auto-Deploy dialog box in the Deploy dialog.
- When hiding a locked page, the page is automatically relocked.

- Removed the Default Group Type project property (Value/String/Position). NWare now uses an intelligent "auto" control group type. If NWare chooses the wrong type of linking, you can override it by using the Value/Position/String Link devices in the Control section of the Device menu.
- The GPIO configuration dialog now matches the actual pin-outs of the DB-25 on the NION. The real pins have not changed, only the order and labelling in the GPIO dialog.

NION

- Removed concept of *Locking Enabled* of the front panel. The front panel is either locked or unlocked. Changing the state either way requires the correct front panel combination.
- Added web-based configuration of SNMP community strings.

NWare: Kiosk

- Kiosk now automatically re-downloads and connects when a project is redeployed.

Installer

- When upgrading, the /temp folder is cleared. In prior versions, upgrades with residual /temp folder contents produced undesired effects.
- The default install mode is now set for all-users rather than just the local account. Although you still have to have administrator privileges to install NWare, you can now run it as a normal user. If you do not want NWare exposed to other machine users, you should restrict NWare folder access to specific accounts. You should also change the security settings of the shortcut icons, so they aren't visible to those users.
- A Start Menu shortcut has been added providing access to NWare : Kiosk. Before, you had to create this shortcut yourself.
- The User Devices folder is now set to be permanent. It will now never be removed by uninstalling. This folder is located here: ...\NWare\plugins\nware\user_devices

Bug Fixes

NWare

- Fixed a bug which made it impossible to scroll the list of targets in the 'Update Target Firmware' dialog box.
- Fixed a bug where Cycle Breakers in a signal across XDAB caused the compile to fail.
- Fixed a bug which caused application to lockup if the project user list was edited after doing a Save As.
- Fixed a bug which allowed NWare to remain connected to the NION(s) in the project after a Save As or a first-time save (also a Save As). This can cause several functions to cease functioning including Presets. The problem is that NWare has created new names and copies of everything, but the NION(s) are still expecting all the old names. Now when you perform a Save As, NWare disconnects from the project before saving to the new filename. To connect the new file to the NION(s), you must now re-deploy the project.
- Corrected IDAB cycle accounting to reflect 100MHz DSP-to-memory transfer rate. This will result in a reported decrease in IDAB busyness for some designs.
- Fixed a bug in the NION compiler that underestimated the amount of IDAB resources needed by the multi-tap delay line device. In some projects, this could have resulted in one or more muted output channels.

- Fixed a bug in both Basic and Deluxe Routers. Previous behavior: with the OFF state enabled and switching from OFF back to a router input, the router device used to momentarily output audio from the wrong input.
- Fixed a bug which caused the firmware update drop-down list to not have a scroll bar when a large number of updates were available. You probably wouldn't notice this, since old versions are normally removed by the installer upon upgrade.
- Fixed a bug which prevented the Launcher control from launching anything.
- Changed a graphic panel in CAB 4n output cards to say "Outputs" instead of "Inputs".

NION

- Fixed bug that could cause DSP(s) to stop functioning following XDAB arbitration.
- Fixed bug that could cause DSP(s) to stop functioning the first time an audio player is started
- Fixed a bug that caused the setting of a static IP address via the web interface to appear as though it didn't work.
- Fixed a bug that prevented time from being set via the web interface
- Fixed a bug that caused a noise blast when the LAN cable was pulled on an XDAB'ed unit with the *Do not mute on node or XDAB failures* fault policy.

Chapter 4

Release candidates and beta releases

In This Chapter

Release 1.0 Release Candidate 1 72
Release Beta 12 73
Release Beta 11 75
Release Beta 10 76
Release Beta 9 77
Release Beta 8 77
Release Beta 7 78
Release Beta 6a 79
Release Beta 6 79
Release Beta 5 79
Release Beta 4 80
Release Beta 3 81
Release Beta 2 82
Release Beta 1 82

Release 1.0 Release Candidate 1

Features

NWare

- Kosmos and Vocal Eliminator devices have been added.
- New File menu commands have been added. Save Default Settings saves the current settings as the ones that are recalled on a restart, and Load Default Settings restores the current settings to the stored values.
- An "alert text" control style has been added.
- There are some new User Preferences to always save the current settings as the default when disconnection from a running system or the Emulator.
- There is a new User Preference that determines if there is warning dialog box when closing the application while connected to a running system.
- The Emulator now allows Kiosk to connect to it. This is helpful in testing exported Page Groups.
- The Emulator now uses the Project User Account privilege settings to authenticate Network Control access.
- If a role assignment partially succeeds and partially fails, the control connection is started to allow control of the units that succeeded.
- The Project Link Client device now has a property that specifies the rate at which the server is polled.
- ControlNodes now pay attention to the Project User Account privileges for Network Control Access, Control Settings Access and Exported Page Groups.
- The "find parent of selected control" option in the Find dialog has been improved to automatically use a single selected control.
- The Advanced CM-1 option's "Unicast Mode" is now set to 1, by default. The old default, "Never" was getting people into trouble. Typing "Never" into this field will prevent the CM-1 from ever using unicast bundles, which is not usually a good thing.

NION

- A NioNode SNMP extension agent has been added. This allows SNMP monitoring of NioNode-specific information such as audio, project, and hardware status. This is an extension to the standard Linux (UCD) SNMP agent that is already supported. In the future, SNMP traps will be added, and a section will be added to support access to Project-based control values. The SNMP agent can be enabled in the Network page of the NioNode web interface. The SNMP agent community strings (passwords) are not currently accessible through the web interface, so if those need to be altered from the defaults, you must do so by editing the /etc/snmp/snmpd.conf file through Telnet. The default values for the community strings are 'public' for read access and 'private' for read/write access.
- It is now possible to edit the CobraNet CM-1 netmask value through the front-panel interface. This value can also be edited through the NioNode web interface.
- Remote Log access can now be controlled via NioNode User Privileges. Access is either read-only or read/clear.

NWare: Kiosk

- The Kiosk GUI has some new command line options: /open=, /user= and /pass=

Bug Fixes

NWare

- There was a bug, now fixed, that caused the PC-based software to not work correctly if at least one network adapter didn't have link, or if all the network adapters were disabled (or not detected) on the computer.
- Hitting an initial backspace when editing block text now doesn't delete the last character (works like MWare did)
- The Serial Control COM port selection control has been fixed.

Python

- Some bugs in exporting and importing Python scripts have been fixed.

NION

- A bug that cause the NioNode to automatically unlock its front panel after one hour has been fixed.
- There were some false alarm messages being logged about the fans stopping and recovering - this has been fixed.

Installer

- The Upgrade functionality of the installer wasn't properly updating old NWare installations. It is now fixed.
- The MediaMatrix NION Daemon service that was introduced in Beta 11 is no longer necessary, since NWare automatically loads the Discovery agent in the background when necessary (see Beta 12 NWare note 15). The Beta 12 installer was still trying to install the service even though it wasn't necessary, which was causing problems.

Release Beta 12

Features

NWare

- Project-based security added to allow the Designer to control user access to RATC, Kiosk, and 'Upload and Connect'. This works at the Project level, rather than the NioNode level.
- Added an advanced User Preference to show/hide the Inspector page in the Utility frame. The Inspector page is now hidden by default.
- Added a compile-time check to verify that no non-system sample rate signals are sent across XDAB.
- Added Conductor priority and clock source to the advanced Properties of the NioNode device.
- Added controls to configure CAB buddy link. Also added CAB control of Conductor priority and synchronization to external word clock on the link input.
- The Preset devices' Load and Save buttons are now trigger style rather than momentary.
- The Latching Light devices' control input is now trigger style rather than momentary.
- Upon deployment, NWare shows a warning if the NioNode firmware does not match the NWare version.

- NWare now shows a Communications Preferences dialog box if more than one IP address is present on the host PC. This box allows the user to pick which IP address to use for NION communications. The setting is remembered, so the box only comes up again if IP addresses have changed.
- Added a menu item to allow the user to manually invoke the new Communications Preferences dialog box.
- The default preset is no longer automatically saved every few seconds.
- The NWare Discovery Application (the one with the panda head), which runs in the background, is now hidden from view.
- Added Kosmos device to the Dynamics menu.

Python

- Added console module to Python control scripting, in the Emulator only, which prints out to the NWare log window. Usage looks like

```
import console
console.out( "your string here" ).
```

- Python output/message `string_set` method now calls `str()` on the passed in object if the object is not a string, making it easier to use.
- Improved error reporting on missing or invalid control scripts.
- The embedded Python scripting language has been upgraded to version 2.4, both for the NioNode, ControlNode and the Emulator. In addition, a more complete Python library is included so that Telnet clients can be implemented.

NION

- The RATC privilege was removed from NioNode-based security (it was moved to Project-based security). This allows you to manage RATC access from one interface instead of on each NioNode.

NWare: Kiosk

- Added a network browser.
- Added an '/open' option. This specifies a Project for NWare : Kiosk to automatically connect to. Syntax is /open="<project name>".
- Now auto-launches the Nion Discovery service when launched.

Installer

- The installer will now recognize a Beta 11 installation and present a dialog box alerting you about the upgrade. Uninstalling of Beta 11 is not necessary. Any older Beta versions should be uninstalled prior to installing Beta 12.

Bug Fixes

NWare

- Fixed the COM port selection control.
- Fixed a bug which broke selecting wires from the compile report.
- Fixed a bug where distributed control connected to logic function will sometimes not deliver value to the function.

Release Beta 11

Features

NWare

- You can now use the Windows clipboard to copy and paste control values - multiple control values are separated by tabs.
- Added Feedback Ferret and Pitch Shifter.
- "pandad.exe", which formerly executed automatically when NWare was started, is now installed upon installation as a Windows Service. This means that you no longer have to make sure that it is running (with the title "Target Discovery" and a panda head) in order to use NWare:Design or NWare:Kiosk. If you need to use the interactive features of pandad, you must first stop the service from the Services Control Manager (Control Panel -> Administrative Tools -> Services) before running pandad in its Interactive Mode. Basically, you should leave it running, unless you are instructed otherwise.

Python

- Updated to version 2.4.
- Added a serial port object which allows scripts to read and write to the serial ports (documentation to come).
- Added a telnet object which allows scripts to manage a TCP session using the Control Ethernet port (documentation to come).
- Improve Python error string generation.
- Display syntax errors in message field.

NION

- Improved BIOS frontpanel menu by adding better descriptions about what buttons do what action.
- Added 'Nion Admin Privilege'.
- Password protect 'dangerous' web pages (accessed via the Nion Admin Privilege).
- Improved speed of project loading on NION.
- Added support for CM-2-based CAB 4n's (early CAB 4n's used CM-1).

NWare++

- Added TCP/IP Server (RATC/RATC2) to ControlNode properties and controls. Must use ConMan Beta 11 or higher to utilize this feature.

Installer

- Installer is now digitally signed with a code signing certificate. This will prevent the "Publisher could not be verified" messages when installing software from our website and will produce friendlier warning messages from Windows XP Service Pack 2. Publisher will be listed as "Peavey Electronics Corporation". Also the digital signature is time-stamped by VeriSign, so that it may be verified after the certificate expires.

Bug Fixes

NWare

- Fixed a bug where compile would fail with an unwired cycle breaker device.

Python

- Fixed a bug that caused the input.value_set to not take floating point values.

NION

- Fixed bug which caused frontpanel to report "IDE OK" when IDE boot actually failed.

Release Beta 10

Features

- New Installer.
- KLS file (Kiosk Configuration File) is now properly registered. Right-clicking on KLS files will allow editing in Windows Notepad or opening with NWare:Kiosk. Right-clicking in Windows Explorer or the Desktop, going to "New" -> "NWare Kiosk Configuration File" will produce a sample KLS file for you to edit, complete with comments on how to configure the file.
- When muting output cards relays are used in conjunction with the DAC mutes to remove possible audio pops during deployment.
- Deploy, log, and status window now have moveable splitters
- When displayed in the GUI, NIONs include their IP address.
- Added a pop-up menu with zoom items to NWare Kiosk
- The front panel serial port can now be used.
- Enabled per channel mutes on CAB 16o by setting channel gain to -95.5 (16o does not have per channel mute capability built in)
- Add event object to threaded python scripts with the following methods (the sleep object has been removed)

```
wait( timeout_ms ) – waits timeout_ms

wait_input_change() – waits for input change

wait_input_change( timeout_ms ) – waits for input change. returns true if an input

 changes within timeout_ms, otherwise returns false.
```

Bug Fixes

- Fixed a bug that caused the NION to stop functioning when shutting down with RATC client(s) connected.
- Fixed bug which caused limiters to go into full limit mode and never return.
- Fixed flaw that prevented output boards from muting if piond was restarted without a reboot.
- Fixed bug where CAB 4n phantom buttons were not operational.
- Fixed bug where room combiners with odd number of rooms would cause the role to not start (due to the fact the composite was placing an odd input mixer, which isn't supported)

- Fixed a bug in the PageMatrix 16x32 Device and Script sample project file. The outputs were reversed (1 was 32 - 32 was 1).

Release Beta 9

Features

- In the GPIO tab of the NioNode device, enlarged the label text, so that the text is always readable. Also made the labels have a background color so it's easier to differentiate the sections.
- Removed "Serial Control" device, which is instead auto-instantiated through a NioNode.
- Added "Find parent of selected control" find command. Only available if a single control is selected.
- Added 'Find controls of selected device' find command.
- Implemented default find value for flyoff name if flyoff is selected when find is called.
- Added logical control operator "exactly one" that satisfies an "alternate" definition of XOR.

Bug Fixes

- Fixed a build problem with Beta 8 that caused the DSP primitives to be out of date with the DSP kernel. This would cause the DSPs to stop functioning and DMA errors to be generated.
- Fixed bug which caused the incorrect context sensitive help to be displayed in certain dialog boxes.

Release Beta 8

Features

- Added labels to crossover block output nodes.
- Added flip-flop device.
- Added control delay device.
- Added Tone Control.
- Added check for obsolete (removed) devices when loading a project file.
- Added 'find obsolete devices' find command to help in rooting out obsolete devices.
- Added tx channel count control to advanced CM-1 control panel.
- Added security for RATC/RATC2. You can now use the Web Interface to add Telnet users.
- Integrated Peak and RMS into one "uber-meter."
- Show warning dialog box when software loads if multiple NICs are detected.
- Changed labels of NioNode types to be N6 and N3 (instead of 3N and 6N).
- GIO Pin assignment in NioNode device properties now defaults to unused.

Bug Fixes

- Fixed problem with flyoffs and flyoff icons not being colored correctly when dragged in from the flyoff window.
- Fixed bug which caused the last transmitter and receiver in the simple cm-1 configurations (4x8 or 8x4) to not be useable.

- Fixed bug which caused "missing unit_z" message when switching from XDAB project to stand-alone project.
- Fixed bug which caused flyoff editor menu to go off the bottom of the screen making it impossible to select the bottom few items without moving the flyoff.
- Fixed bug which caused front panel lock state to not persist across boots.
- Fixed bug that caused meter text box to be drawn with an extremely small font.
- Fixed bug in Python script of "PageMatrix 16x32 Device and Script" sample file which inhibited priority '0' from preventing a page to a zone.
- Fixed bug where using Installer created NWare shortcuts cause the "Target Discovery" icon to appear as "C:\" icon instead of a panda head. Merely cosmetic.

Release Beta 7

Features

- NION network services (Web server, telnet, SNMP) can now be turned on/off from the front panel.
- Added low/high shelf filter types to single band parametric.
- New CM-1 device. There are now 2 presets (four 8-channel bundles like MM and eight 4-channel bundles for 4n) as well as Advanced which exposes all CM-1 controls to the user
- Added per user privileges. Current privileges are role_deploy, user_admin, and pandebug_access (update privilege is listed but is currently not implemented). There are 3 built in accounts - defaultuser, superuser, and frontpanel user. Users can be managed from either pandebug or the web interface.

  Superuser has all privileges and only the password can be changed.

  Defaultuser has an empty password and only the privileges can be changed.

  Frontpanel is only used for frontpanel locking at this point. Privileges are ignored and password needs to be in the form '0:0:0:0:' (four numbers 0 - 40 with colons (":") after each number) .
- Added Ambient Sensing Leveler.
- Added DTMF encoder / decoder.
- Added 'button - custom' style which allows the user to specify an on and off image as well as whether or not it draws the background color as well.
- Created new Cascading Style Sheet (CSS) for NWare's help system and reorganized topics and bookmarks.
- Added a menu item in the Help menu, "Check for updates...", which will connect to the MediaMatrix web site (if you are connected to the Internet) to check for any available updates. If the version of NWare is not current, the resulting web page will provide links to download the latest update and view its release notes. If your version is current, you will be reassured that you are running the latest and greatest NWare.

Bug Fixes

- Fixed single band parametric frequency response.
- Fixed bug which caused kiosk mode to fail if no images were used in the design.
- Fixed bug where if a design was saved with a locked page visible it was permanently hidden when the file was reloaded.
- Fixed a bug that resized hierarchical block internal flyoffs if the properties were modified after block creation.

- Fixed a bug where multiple flyoffs would be created in seemingly random orders.
- Fixed bug which muted CABs.

Release Beta 6a

Features

- Added new control style - 'Button - Custom'.

Bug Fixes

- Fixed Beta 6 bug: Couldn't change color from **Control Properties** dialog box.

Release Beta 6

Features

- Added 'Copy Style...' for controls and graphics.
- Added 'led - rectangle' style.
- Added page based security. Pages can be locked and hidden with a password. To show the page, the password needs to be entered. Locked pages are hidden when the file is loaded regardless of their state when the file was saved.
- Allow for multiple selections when importing media.
- Added 'allow off state' property to Router. Adds an off button to each output selector.
- Added 'image control' control style, which draws an image based on it's control string value. The image must be imported into the media library before it's available to the control.
- Added support for txPriority, txUnicastMode, txMaxUnicast, and rxPriority in the CM-1 device.
- Change dialog font to 'MS Shell Dlg' which is designed to make the dialogs work in international versions of XP.
- Added 'replace text' menu item.
- Added 'autonumber' option to flyoff and label finds.
- Now sorts find results alphabetically.
- Check python syntax and for missing scripts during compile.
- Make system flyoffs read-only and drawn in italics. When a NioNode is renamed, rename all of the associated flyoffs.
- AutoNumber Flyoffs defaults to at least 4 fields so the dialog box is useful to name empty flyoffs.

Release Beta 5

Features

- If you ping a NioNode, it will respond by flashing its LCD backlight a number of times.
- There is a new, easier to use, Auto number dialog that replaces the old command.
- The script editor dialog box is resizable, so it's easier to edit large scripts.
- Removed the low quality graphics options for the GUI.
- Added support for vector based EMF/WMF files so they scale nicely.
- Added support for configuring RS-485 serial bridging in CABs.

- When a unit is not yet connected to the GUI, its controls now have a transparent yellow overlay.
- Added full scale gain selection control for line input/output cards in CABs
- Added capability to invoke a web page from the menus (via the display_url function in default_menu.xml).
- Added /deploy="file" command line argument
- The System Mute Device now mutes attached CABs.
- Added graphical lock and unlock menu items.
- Added a CobraNet error counter to the CM-1 device.
- CABs now mute when the NioNode that is controlling them is shutdown.
- When resizing objects. holding the shift key down now locks width/height proportions.
- Reduced GUI memory usage. For instance, a large Project that used to take 220MB of PC memory now uses 150MB.
- NioNodes now run a web server (the NioNode Web Interface), through which you can accomplish various status monitoring and unit configuration tasks.. Type something like http://198.90.143.30/ (substitute your NioNodes IP address) into your web-browser. An extra-special dangerous page lets you reboot or power down and restart, halt and erase the current role. This page, which has no security, currently, can be found at this address (substitute the proper IP): http://198.90.143.30/god.html
- NioNode front panel screen capture is available through the NioNode Web Interface.
- RATC, versions 1 and 2, are supported via TCP/IP and on the NioNode rear serial port see User Guide for more information.
- PASHA and XControl are supported on the NioNode rear serial port see the User Guide for more information.

Bug Fixes

- Fixed the polygon tool to reach polygons that are behind locked objects.
- Fixed a bug where clearing the remote log of a NioNode that you were not polling caused an unhandled exception. Also disabled the **Sync Log** option if not polling, as it is not required in this case.
- Removed some error logging that was printing out if you had CABs but didn't have a cable plugged into the CM-1.

Release Beta 4

Features

- Duplicate Command: Added Edit | Duplicate command (hot key Ctrl+D).
- Full Bundle Range: Fully support CobraNet bundle range (excluding the private bundle range above 65279).
- Fader knobs now track under mouse.
- Phase 0 Security: Features have been implemented that can give hardware protection and allow designer-designated control panels to be exported. See User Guide Security Phase 0 for details.
- Phase 0 Fault Policy: Features have been added. This allows you to specify dependencies between Target Nodes. This means that a node will mute if any of the nodes it is dependent upon suffer a fault. By default, the NioNodes in an XDAB cluster are dependent on one another. See User Guide System Fault Policy for details.

- The 16 kHz system sample rate is longer available. Since there are no I/O cards that support a sample rate this low, it is felt that 16 kHz is not important enough to support.
- ControlNode Auto Assignment: Those devices which can only be placed on a ControlNode are now automatically assigned to the ControlNode in the Project, if there is only one ControlNode in the Project.
- Power-Down Shortcut: On the NioNode front panel, if the power button is held for three seconds, the LCD backlight will darken, and a power-down will occur when the button is released.
- Find Command: A 'Find' menu command has been added. The results of a Find can be displayed in the design by clicking on the find results. The results can be edited by right clicking on the find results.
- Improved Locate: Locate now opens child windows if item to be located is inside of a block. Locates are invoked by clicking on items in the compile report or by performing a Find (Edit | Find).
- Loading large Project files is much faster.
- A System Mute device has been added.
- Support for CAB-4n AEC cards has been added.

Bug Fixes

- Editing Grouped Items: Fixed a bug where items in a graphical Group (**Tools | Group**) could not be edited.
- User-Defined Devices: An install bug In Beta 3 prevented the display of User-Defined devices. This has been fixed.
- Update All Out of Date Devices: The **Tools | Update All Out of Date Devices** option now works properly.

Release Beta 3

Features

- Devices with 'Debug' Feature: Modulated allpass filter and modulated low/highpass filters.
- Browse for Image from Properties: Added browse for image button to graphic object properties.
- Buttons Removed: Buttons eliminated from Media and Python windows in order to standardize on right-click/ top level menus for all actions.
- Drag-and-drop from script window creates Control Scripter device.
- Automatically imports math module so it's available to all python scripts.
- Added user devices window. Allow for deletion of user devices.
- Added GPIO for CAB 8i/8o device.
- Added single-channel gain to Level category.
- Added bypass parameter to gain.
- Added CAB 16d device.
- Control wiring nodes are now repositioned if the size of the control changes.
- Removed broken printing menu item. Will be restored in later release.
- Added threaded concept to Python scripts. They run in their own thread and have a sleep.wait(ms) function that can be called. If they loop, it is a requirement that the sleep.wait function is called so the thread has a chance to exit.

- Waypoints are now sized so that wires are straight when stacked.
- Added optional period knob to blinker device.
- Changed maximum output gain from 0dB to +18dB in NxM mixers.
- Add schedule device.
- Add scheduler generator device.
- Middle mouse button activates pan.

Release Beta 2

Features

- NioNodes now mute audio during firmware updates.
- Graphical group/ungroup implemented: Items can be grouped together so the maintain their relative positions. Hierarchical groups are supported, so if a set of groups is grouped and then upgrouped, their original grouping is preserved.
- Python script undo: Editing python scripts now supports undo in the following operations:

  " undo/redo script edit.

  " undo/redo script create.

  " undo/redo script delete.

  " undo/redo script rename (via export script name conflict).
- Copy/Paste of control values is now supported.
- New control styles available: Polygon LED' and Transparent Polygon Button styles have been added. Also, a Color option has been added to the LED/polygon LED. The LED gets its color from its string value. Currently it supports the standard *SVG color names* (*http://www.w3.org/TR/SVG/types.html#ColorKeywords*) as well as HTML style RGB triplets (#RRGGBB).
- Improved CAB Support: Preliminary support for CAB 8i, 8o, 16i, 16o. Supports tx/rx config and level controls, but does not support CAB GPIO as of yet.

Release Beta 1

Features

- Numerous GUI enhancements.
- Project Deploy methods have changes: The method by which you compile a Project, and deploy and connect to target hardware has changed. The new commands are Deploy, Connect, Disconnect, Emulate and Disemulate. See the User Guide for details!
- Project can be stored on the NioNodes: During deploy there is an option to Save Project to Target. The Project can later be uploaded, using "File | Upload and Connect, for editing and/or control.
- Odd mixer input counts no longer allowed: Due to an optimization of the Mixer device processing efficiency, the number of inputs can only be an even number now i.e. a 3x1 is not allowed, you have to use a 4x1.
- Script Library: You can import and export script functions to and from the Script Library, so that the functions are available to other Projects.